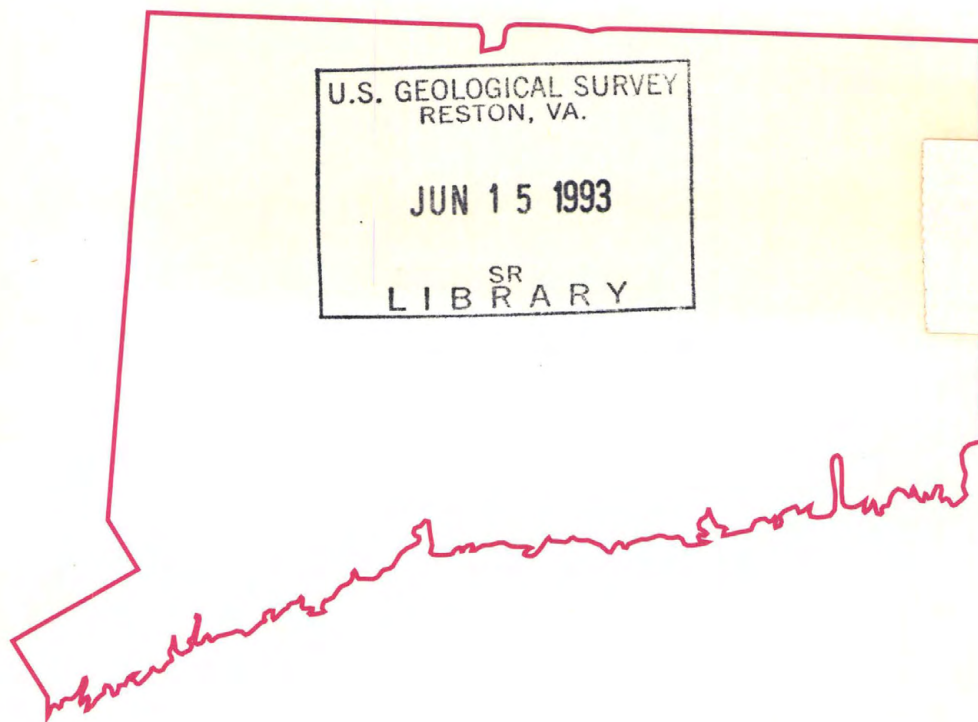


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Water Resources Data Connecticut Water Year 1992



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-92-1
Prepared in cooperation with the State of Connecticut
and with other agencies

CALENDAR FOR WATER YEAR 1992

1991

OCTOBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
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NOVEMBER

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1992

JANUARY

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31						

JUNE

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SEPTEMBER

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27	28	29	30			



United States Department of the Interior



GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
450 Main St., Rm. 525
Hartford, CT 06103
(203) 240-3060

I am pleased to enclose a copy (or copies) of our annual report, "Water Resources Data, Connecticut, Water Year 1992". This report was prepared by the U.S. Geological Survey in cooperation with the State of Connecticut and several local and Federal government agencies.

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

Additional copies of this report are for sale through the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. When ordering, please refer to U.S. Geological Survey Water-Data Report CT-92-1. For further information on this report, you may contact me at the above address or telephone (203) 240-3060.

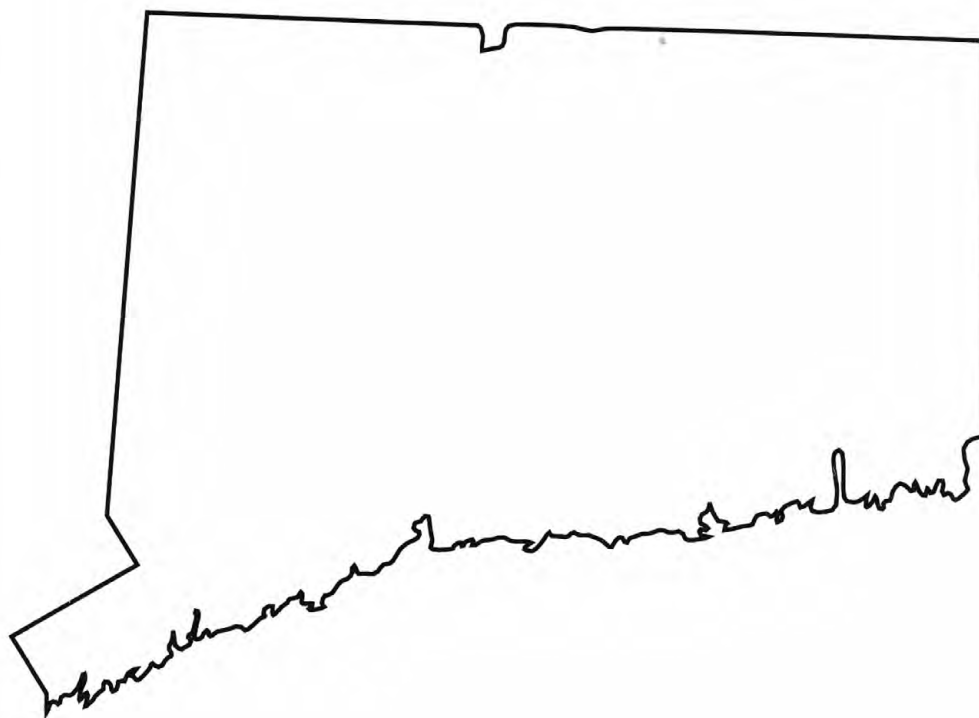
Sincerely,

Chester E. Thomas, Jr.
Chief, Connecticut District



Water Resources Data Connecticut Water Year 1992

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CT-92-1
Prepared in cooperation with the State of Connecticut
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBIT, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Connecticut, write to:

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

1993

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:

J. Morrison	G.P. Rigatti	J. Mullaney
L.A. Weiss	D.F. Healy	M. P. Sears
T.M. Collins	B. Korzendorfer	T.A. Alexander
T.W. Frick	J.A. Organek	

Clifford H. Keune prepared the illustrations for 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 District.

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15. Supplementary Notes				14.

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

16. Abstract (Limit 200 words)

Water resources data for the 1992 water year for Connecticut consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels of ground-water wells. Specifically, it contains: (1) discharge records for 44 streamflow-gaging stations, and for 1 tidal volume streamflow station; (2) stage-only records for 3 tidal-gaging stations; (3) 29 partial-record or miscellaneous streamflow stations; (4) water-quality records for 13 streamflow-gaging stations, for 17 ungaged stream sites, for 1 tidal-gaging station, for 2 lakes and reservoirs,; and (5) water-level records for 46 observation wells. Locations of these sites are shown on Figures 1, 2 and 3. Additional water data were collected at various sites involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Connecticut.

17. Document Analysis a. Descriptors

*Connecticut, *Hydrologic data, *Surface water, *Ground water, *Water quality, Streamflow, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Biological analyses, Water temperatures, Sampling sites, Water levels, Water analyses, Estuary.

b. Identifiers/Open-ended Terms

c. COSATI Field/Group

18. Availability Statement No restrictions on distribution This report may be purchased from: National Technical Information Service, Springfield, VA 22161	19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 273
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vi SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[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]

	Station number	Page
NORTH ATLANTIC SLOPE BASIN		
PAWCATUCK RIVER BASIN		
Green Fall River (head of Ashaway River):		
Wyassup Brook:		
Pendleton Hill Brook near Clarks Falls (d)	01118300	31
Pawcatuck River at Westerly, R.I. (d,c,m,t,s)	01118500	32
POQUONOCK RIVER BASIN		
Poquonock River near Groton (e)	01119040	39
THAMES RIVER BASIN		
Willimantic River (head of Thames River):		
Willimantic River at Merrow (c,m)	01119375	40
Willimantic River near Coventry (d)	01119500	42
Still River (head of Natchaug River):		
Mount Hope River near Warrenville (d)	01121000	43
Shetucket River (continuation of Willimantic River) near Willimantic (d)	01122500	44
Shetucket River at South Windham (c,m,t,s)	01122610	45
Little River near Hanover (d)	01123000	51
Shetucket River at Taftville (d)	011230695	52
Quinebaug River at Quinebaug (d,c,m)	01124000	53
French River at North Grosvenordale	01125100	56
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Yantic River at Yantic (d)	01127500	62
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Connecticut River:		
Connecticut River below Holyoke Dam at Holyoke, MA (d)	01172003	64
Connecticut River at Thompsonville (d,c,m,t,s)	01184000	65
Stony Brook near West Suffield (d)	01184100	72
Scantic River:		
Broad Brook at Broad Brook (d)	01184490	73
Farmington River:		
West Branch Farmington River at Riverton (d)	01186000	74
Still River at Robertsville (d)	01186500	75
Hubbard River (head of East Branch Farmington River) near West Hartland (d)	01187300	76
Burlington Brook near Burlington (d,c,m)	01188000	77
Farmington River at Unionville (d,c,m)	01188090	79
Pequabuck River at Forestville (d)	01189000	82
Pequabuck River at Farmington (c,m)	01189030	83
Farmington River at Tariffville (d,c,m)	01189995	86
Farmington River, at Rainbow Fishway, at Rainbow (t)	01189999	89
Connecticut River at Hartford (c,m,e)	01190070	93
Hockanum River:		
Hockanum River near East Hartford (d,c,m)	01192500	96
Mattabessett River:		
Coginchaug River at Middlefield (d)	01192883	100
Connecticut River near Middletown (v)	01193000	101
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Salmon River near East Hampton (d,c,m,t,s)	01193500	117
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	Station number	Page
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Indian River near Clinton (d)	01195100	135
HAMMONASSET RIVER BASIN		
Pond Meadow Brook at Killingworth (d)	01195146	136
QUINNIPIAC RIVER BASIN		
Quinnipiac River at Southington (d)	01195490	137
Quinnipiac River near Meriden (c,m)	01196222	138
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Housatonic River at Falls Village (d)	01199000	153
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Tennile River at South Dover near Wingdale, NY (c)	01199900	155
Tennile River near Gaylordsville (d)	01200000	157
Housatonic River at Gaylordsville (d)	01200500	158
Still River at Brookfield Center (c,m)	01201485	159
Shepaug River near Roxbury (c,m)	01203000	162
Pomperaug River at Southbury (d)	01204000	164
Lake Zoar at Stevenson (t)	01205000	165
Housatonic River at Stevenson (d,c,m,s)	01205500	166
Naugatuck River:		
West Branch Naugatuck River at Torrington (d)	01205600	170
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NORWALK RIVER BASIN		
Norwalk River at South Wilton (d)	01209700	192
Norwalk River at Winnipauk (c,m)	01209710	193

GROUND-WATER LEVELS

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FAIRFIELD COUNTY

Well 413007073250501	Local number BD8	206
Well 411256073153101	Local number FF23	207
Well 412429073165101	Local number NT15	208

HARTFORD COUNTY

Well 414615072581601	Local number BU2	209
Well 415450072332201	Local number EW133	210
Well 415548072311301	Local number EW134	211
Well 415649072494801	Local number GR328	212, 214
Well 415647072495901	Local number GR329	213, 214
Well 415643072502201	Local number GR330	215, 217
Well 415653072501701	Local number GR331	216, 217
Well 413535072253701	Local number MB32	218
Well 413724072551101	Local number SW64	219

LITCHFIELD COUNTY

Well 420125073193001	Local number NOC7	220
Well 415925073252001	Local number SY15	221
Well 415554073253401	Local number SY23	222
Well 415956073241501	Local number SY24	223
Well 413202073122401	Local number WY1	224

MIDDLESEX COUNTY

Well 411832072325501	Local number CL223	225
Well 411826072322401	Local number CL224	226
Well 411735072315001	Local number CL225	227
Well 412809072420701	Local number D116	228
Well 412825072410501	Local number D117	229
Well 412724962411902	Local number D119	230
Well 412824962411901	Local number D120	231
Well 413033072432001	Local number MF1	232
Well 413254072335501	Local number MT261	233

NEW HAVEN COUNTY

Well 411723072344701	Local number MA314	234
Well 412396962515201	Local number NHV201	235
Well 412550072510701	Local number NHV202	236
Well 412954073125201	Local number SB30	237
Well 413002073131001	Local number SB39	238
Well 412935073104601	Local number SB40	239
Well 412935073122701	Local number SB41	240
Well 413134073021701	Local number WB93	241
Well 413245072584201	Local number WB198	242

NEW LONDON COUNTY

Well 413457072252201	Local number CO335	243
Well 412013072030601	Local number GT19	244
Well 412931071514201	Local number NSN77	245
Well 412746071510601	Local number NSN78	246
Well 412824072173301	Local number SM7	247

TOLLAND COUNTY

Well 414548072114501	Local number MS19	248
Well 414741072134501	Local number MS44	249

WINDHAM COUNTY

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Well 414243072040501	Local number SC19	251, 253
Well 414237072034401	Local number SC20	252, 253
Well 414240072033201	Local number SC22	254, 255

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water gaging stations have been discontinued. All listed stations had daily streamflow or stage records published for the period of record, expressed in water years. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back of the title page of this report

Station number	Station name	Drainage area (square miles)	Period of record
POQUONOCK RIVER BASIN			
01119000	Great Brook at Poquonock Bridge (stage only)	14.5	1946-67
THAMES RIVER BASIN			
01119280	Willimantic River at Stafford Springs	52.9	1963-67
01119320	Roaring Brook near Stafford Springs	14.7	1961-66
01120000	Hop River near Columbia	73.9	1932-71
01120500	Safford Brook near Woodstock Valley	4.16	1950-81
01125415	Muddy Brook near Woodstock	20.2	1979-83
01125440	Little River at Harrisville	35.7	1961-71
01126000	Fivemile River at Killingly	57.8	1938-71
01126500	Moosup River at Moosup	83.2	1933-71
01126600	Blackwell Brook near Brooklyn	16.8	1964-76
01126950	Pachaug River at Pachaug	53.2	1961-75
CONNECTICUT RIVER BASIN			
01183950	Grape Brook at Thompsonville	2.46	1967-69
01184280	Scantic River near North Somers	27.0	1967-69
01184500	Scantic River at Broad Brook	97.8	1928-71
01186100	Mad River at Winsted	18.5	1957-69
01186400	Sandy Brook at Robertsville	35.2	1968-76
01187000	West Branch Farmington River at Riverton	218	1929-55
01187400	Valley Brook near West Hartland	7.35	1940-74
01187680	Cherry Brook near Canton Center	8.12	1967-71
01187800	Nepaug River near Nepaug	23.6	1918-55; 1958-72
01187850	Clear Brook near Collinsville	.53	1917-73
01187980	Farmington River at Collinsville	360	1963-77
01189180	Hop Brook at West Simsbury	1.38	1967-71
01189190	Stratton Brook at West Simsbury	1.50	1967-71
01189200	Stratton Brook near Simsbury	5.48	1966-71
01189210	Hop Brook near Simsbury	11.2	1966-71
01189390	East Branch Salmon Brook at Granby	39.1	1964-76
01189500	Salmon Brook at Granby	66.7	1946-63
01190100	Piper Brook at Newington Junction	14.4	1958-71

WATER RESOURCES DATA - CONNECTICUT, 1992

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station number	Station name	Drainage area (square miles)	Period of record
CONNECTICUT RIVER BASIN (continued)			
01190200	Mill Brook at Newington	2.66	1958-71
01190300	Trout Brook at West Hartford	13.4	1958-71
01190500	South Branch Park River at Hartford	38.2	1937-72; 1973-81
01190600	Wash Brook at Bloomfield	5.62	1958-71
01191500	Park River at Hartford	72.1	1937-62
01192370	Porter Brook near Manchester	2.44	1976-81
01192480	Hop Brook near Manchester	11.7	1977-83
01192600	South Branch Salmon Brook at Buckingham	.92	1961-76
01192610	Salmon Brook at Glastonbury	8.19	1967-78
01192650	Roaring Brook at Hopewell	24.5	1962-71
01192700	Mattabessett River at East Berlin	46.6	1962-71
01193800	Hemlock Valley Brook at Hadlyme	2.66	1960-76
01194000	Eightmile River at North Plain	20.3	1939-66
01194500	East Branch Eightmile River near North Lyme	22.4	1937-81
MENUNKETESUCK RIVER BASIN			
01195000	Menunketesuck River near Clinton	11.5	1941-67
EAST RIVER BASIN			
01195200	Neck River near Madison	6.57	1961-81
QUINNIPIAC RIVER BASIN			
01195500	Quinnipiac River at Southington	17.9	1936-38; 1969-70
01196000	Eightmile River at Plantsville	14.5	1936-38; 1969-70
01196580	Muddy River near North Haven	18.0	1962-73
MILL RIVER BASIN			
01196626	Mill River at Hamden	36.5	1974-78
HOUSATONIC RIVER BASIN			
01198500	Blackberry River at Canaan	43.8	1949-71
01198800	Hollenbeck River at Huntsville	19.1	1971-74
01198860	Deming Brook near Huntsville	1.05	1971-74
01199200	Guinea Brook at Ellsworth	3.56	1960-81
01201190	West Aspetuck River near New Milford	23.7	1963-72
01201500	Still River near Lanesville	67.5	1932-66
01201930	Marshepaug River near Milton	9.37	1968-81
01202500	Shepaug River at Woodville	38.2	1936-66

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station number	Station name	Drainage area (square miles)	Period of record
HOUSATONIC RIVER BASIN (continued)			
01203510	Pootatuck River at Sandy Hook	25.0	1965-73
01203600	Nonewaug River at Minortown	17.6	1962-76
01204800	Copper Mill Brook near Monroe	2.46	1958-76
01206000	Naugatuck River near Thomaston	72.2	1931-59
01206400	Leadmine Brook near Harwinton	19.8	1959-73
01206500	Leadmine Brook near Thomaston	24.6	1931-59
01208012	Branch Brook near Thomaston	20.3	1971-74
01208450	Naugatuck River near Waterbury	245	1918-24; 1928-55
SAUGATUCK RIVER BASIN			
01208999	Little River at Sanfordtown	5.55	1965-68
01209110	Aspetuck River at Aspetuck	19.1	1962-67
01209500	Saugatuck River near Westport	79.9	1932-67
RIPPOWAM RIVER BASIN			
01209900	Rippowam River at Stamford	33.6	1975-77
01209901	Rippowam River at Stamford	34.2	1977-82
BYRAM RIVER BASIN			
01212100	East Branch Byram River at Riversville	11.2	1963-69

WATER RESOURCES DATA - CONNECTICUT, 1992

DISCONTINUED SURFACE-WATER QUALITY NETWORK STATIONS

The following stations were discontinued as continuous-record or periodic surface-water-quality network stations prior to the 1992 water year. Discontinued network stations with less than 9 months of record have not been included. Discontinued project stations have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back of the title page of this report

Station number	Station name	Drainage area (square miles)	Period of record
PAWCATUCK RIVER BASIN			
01118525	Pawcatuck River near Pawcatuck	302	1974-76
THAMES RIVER BASIN			
01122001	Natchaug River at Willimantic	174	1974-80
01125150	French River at Mechanicsville	107	1962-63 1974-91
01125200	Quinebaug River at Putnam	288	1962; 1974-80
01125720	Quinebaug River at Pomfret Landing	376	1962-64; 1974-80
01127701	Thames River near Mohegan	1,382	1963; 1974-91
CONNECTICUT RIVER BASIN			
01184100	Stony Brook near West Suffield	10.4	1980-91
01186800	Still River at Riverton	86.2	1971; 1974-91
01188085	Farmington River at Unionville	373	1974-83
01189120	Farmington River at Avon	465	1971; 1974-91
01190015	Farmington River at Windsor	599	1974-76
01190045	Podunk River at South Windsor	3.87	1975-81
01190069	Connecticut River at Hartford	10,492	1974-76
01191510	Park River at Hartford	72.6	1974-79
01192370	Porter Brook near Manchester	2.44	1976-81
01192516	Hockanum River at East Hartford	76.1	1974-91
01192911	Connecticut River at Middletown	10,869	1974-91
LONG ISLAND SOUND			
01196656	New Haven Harbor near New Haven	--	1974-91
HOUSATONIC RIVER BASIN			
01198135	Housatonic River near Sodom	471	1984-91
01198550	Housatonic River near Canaan	586	1974-83
01200600	Housatonic River near New Milford	1,022	1962-63 1974-91
01201700	Lake Lillinonah near Brookfield Center	1,214	1974-91
01204510	Lake Zoar at Riverside	1,511	1974-91
01208828	Housatonic River at Stratford	1,941	1974-91
NORWALK RIVER BASIN			
01209570	Norwalk River at Georgetown	14.4	1964; 1966; 1976-78
01209572	Norwalk River at Cannondale	15.2	1977-78
LONG ISLAND SOUND			
01209910	Stamford Harbor at Stamford	--	1974-91

WATER RESOURCES DATA - CONNECTICUT, 1992

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 44 streamflow-gaging stations, for 29 partial-record or miscellaneous streamflow stations, and for 1 tidal volume streamflow station; (2) stage-only records for 3 tidal-gaging stations; (3) water-quality records for 13 streamflow-gaging stations, for 17 ungaged stream sites, for 1 tidal-gaging station, for 2 lakes and reservoirs, for 3 miscellaneous stations, and for 3 wells; and (4) water-level records for 46 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 CT-92-1." 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. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water-year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information, including current prices, for ordering specific reports may be obtained from the Geological Survey, Connecticut District, by writing to the address given on the back of the title page or by telephoning (203) 240-3060. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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, Timothy R. E. Keeney, Commissioner.
Town of Fairfield, Conservation Commission, Thomas J. Steinke, Director.
City of New Britain, Board of Water Commissioners, John A. McManus, Director
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 description.

SUMMARY OF HYDROLOGIC CONDITIONS

Runoff

Runoff for 6 of 12 months of the 1992 water year was in the normal range. Two months were above-normal, 2 months were below-normal, and 2 months had variable runoff, based on the 30-year reference period October 1950 to September 1980, at the four index stations. The 4 stations are Mount Hope River at Warrenville, Salmon River at East Hampton, Burlington Brook near Burlington, and Pomperaug River at Southbury. Monthly runoff conditions for Connecticut are summarized below:

October	normal
November	normal
December	normal
January	normal
February	normal (except below normal in Southwestern CT)
March	normal
April	below normal
May	below normal
June	above normal
July	above normal (Northeastern and Southwestern CT) normal (Northwestern and Southeastern CT)
August	above normal
September	normal

June was a noteworthy month this year. Streamflow statewide increased from below normal in May to well above normal in June, the direct result of the heavy rains on the 5th and 6th. Flows at the four index stations averaged 250 percent of their long-term June median flows.

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

Reservoir Storage

Typical seasonal variations in the amount of storage in the 8 principal municipal systems occurred during the year. The systems range in usable capacity from 1.15 billion gallons (bg) (Norwalk) to 39.8 bg (Hartford). Storage averaged 79 percent of capacity for October and increased to 97 percent for June. Reservoir storage then gradually declined seasonally to 87 percent of capacity by the end of September.

Precipitation

Precipitation totals statewide for the 1992 water year were below the median annual based on the 30-year reference period October 1950 to September 1980. However, June was an exceptionally wet month. Three stations reported precipitation totals for June greater than 8 inches and three other stations reported totals for June greater than 7 inches. Monthly precipitation for Connecticut is summarized below:

October	normal
November	normal
December	below normal
January	below normal
February	normal
March	normal
April	below normal
May	below normal
June	above normal
July	normal
August	above normal
September	normal

Cumulative precipitation and departures from normal are shown in table 2.

Ground-Water Levels

Monthly ground-water levels for October were in the above-normal range in the northern part of the State, and normal in the southern part. In November and December, levels were in the normal range, except in the northwest hills, where they remained above normal.

In January, ground-water levels were in the normal range statewide, and remained that way for February, March and April. Levels declined seasonally during May and were in the low-normal to below-normal range statewide.

In June levels rose unseasonably because of the heavy rains at the beginning of the month, but remained in the normal range. In July normal levels prevailed except in the northwestern corner (above-normal) and southeastern corner (below normal).

Above normal precipitation in August caused levels to rise unseasonably and the effect continued into September. August had levels in the above-normal range for most of the State except the north-central and northeastern parts. September found most of the State in the above normal range except for the extreme northwest and northeast corners.

Table 1.--Monthly and long-term median monthly discharges for index stations in Connecticut for 1992 water year

[Discharges in cubic feet per second]

Station number and location*

Month	01121000 Mount Hope River near Warrenville		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	32.6	17.4	6.2	3.3	113	62.8	99.6	36.6
November	66.4	38.7	9.2	7.6	206	119	122	96.2
December	68.7	61.8	8.8	6.1	245	199	159	163
January	63.9	56.1	7.5	8.5	241	215	100	114
February	51.5	64.4	6.9	7.9	189	235	98.4	154
March	84.3	103	16.3	16.1	301	377	202	254
April	72.7	94.5	11.9	16.0	225	347	182	243
May	34.5	58.7	6.1	9.4	108	227	80.3	146
June	41.8	22.6	13.9	4.1	216	83.8	151	54.7
July	13.8	12.3	4.9	2.7	83.7	44.4	58.3	34.9
August	22.9	9.4	9.6	2.2	97.6	29.9	93.4	30.2
September	16.4	9.1	3.4	2.5	61.7	36.9	33.3	28.8

* See figure 1 for station locations.

Table 2.--Precipitation and departure from normal,
in inches for the 1992 water year for index stations in Connecticut
[Data from the National Weather Service]

Station	Cumulative precipitation 1992 water year	Departure from median annual **
Bridgeport	43.98	4.37
Groton	41.59	-5.38
Hartford WSO AP	41.67	-0.90
Mansfield Hollow Dam	47.97	3.57
Mount Carmel	46.57	-0.52
Norfolk	49.43	-2.73
Putnam Lake	44.70	-5.57
Shepaug Dam	47.60	0.89
Stevenson Dam	54.03	5.06
Storrs	43.41	-5.21

** Median values have been computed for water years 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).

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in more than one-third of the study units and ultimately will be conducted in 60 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

The Connecticut, Thames, and Housatonic Rivers NAWQA study unit collected water quality data at various sites throughout Connecticut. This information is published in the report, in the sections; Analyses of Samples Collected at Miscellaneous Sites and Quality of Ground-Water. Additionally, tissue and sediment data were collected at the following sites in Connecticut:

01184490	Broad Brook at Broad Brook, CT
01189000	Pequabuck River at Forestville, CT
01192500	Hockanum River near East Hartford, CT
01200000	Tenmile River near Gaylordsville, CT
01209710	Norwalk River at Winneepauk, CT

To obtain this data please contact the U. S. Geological Survey, 28 Lord Rd., Suite 280, Marlborough, MA., or phone (508) 485-6360.

Radiochemical programs 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 1992 water year that began October 1, 1991, and ended September 30, 1992. 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, 2 and 3. 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.

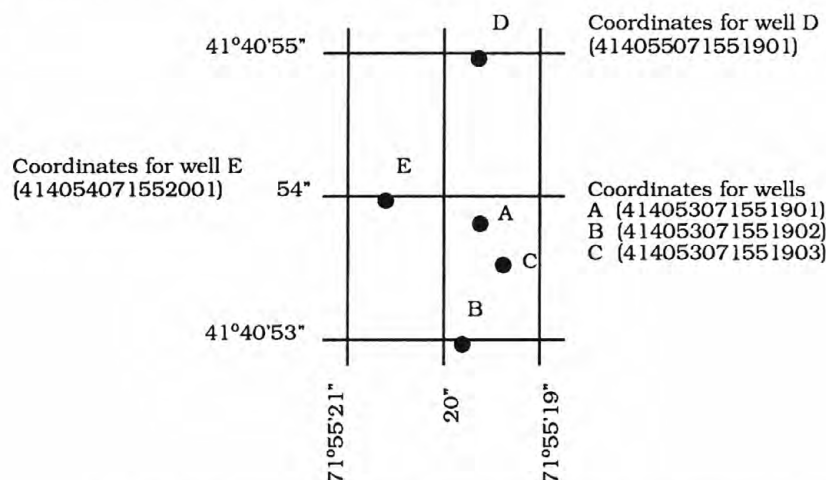
Downstream Order System

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."

Records of Stage and Water Discharge--Continued

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.

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."

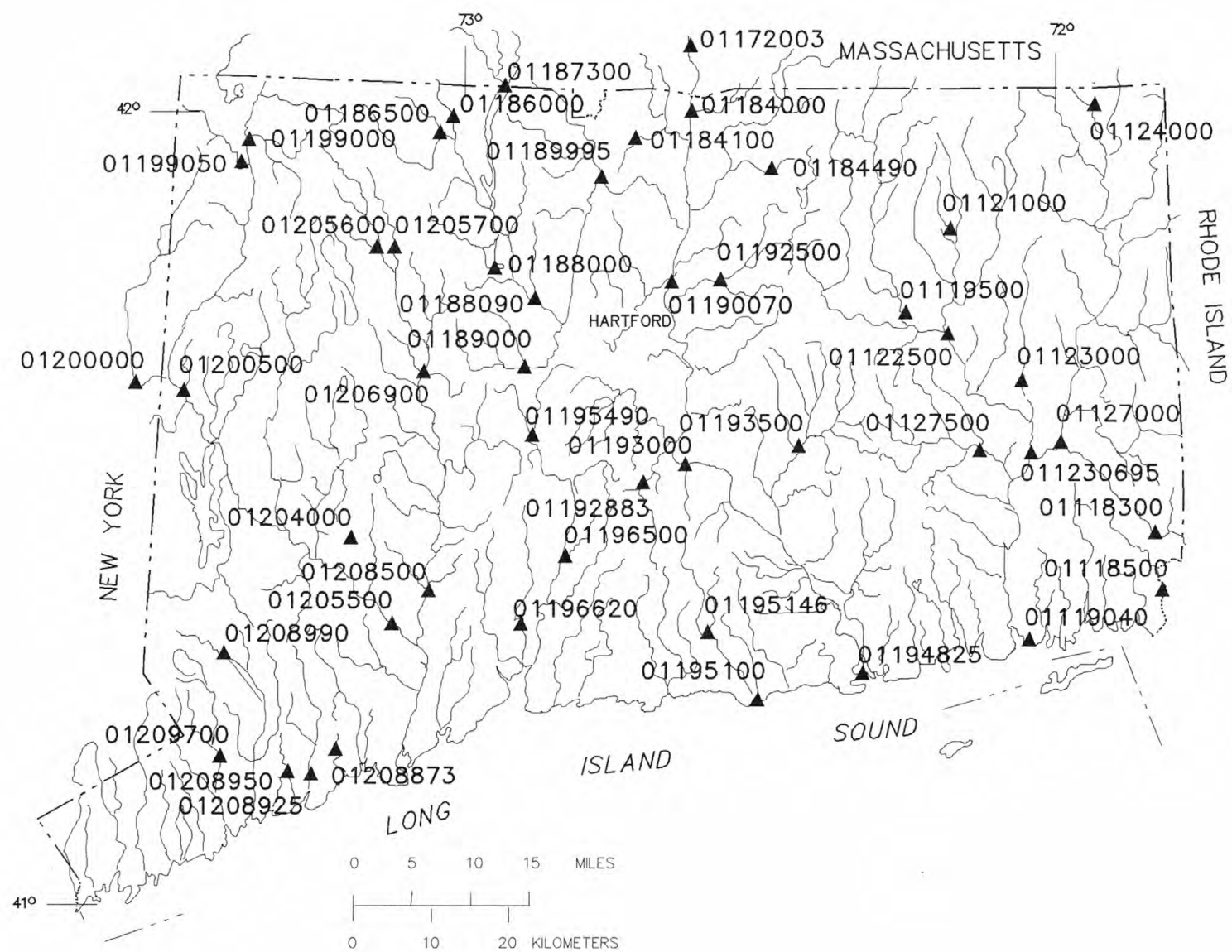


Figure 1.--Location of active surface-water gaging stations.

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in the data reports prior to the 1992 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

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.

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.

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

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.

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.

Data Presentation--Continued

Station Manuscript--Continued

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.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentation of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each 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. 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.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _-, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated as appropriate. The designated period selected, "WATER YEARS _-," will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted of for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

Data Presentation--Continued.

Summary Statistics--continued

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurements in presenting annual runoff data:

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

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

Inches (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow for the designated period.

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.

Accuracy of Records--Continued

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. 27-29 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey, Connecticut Office.

On-site Measurements and Sample Collection--Continued

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.

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.

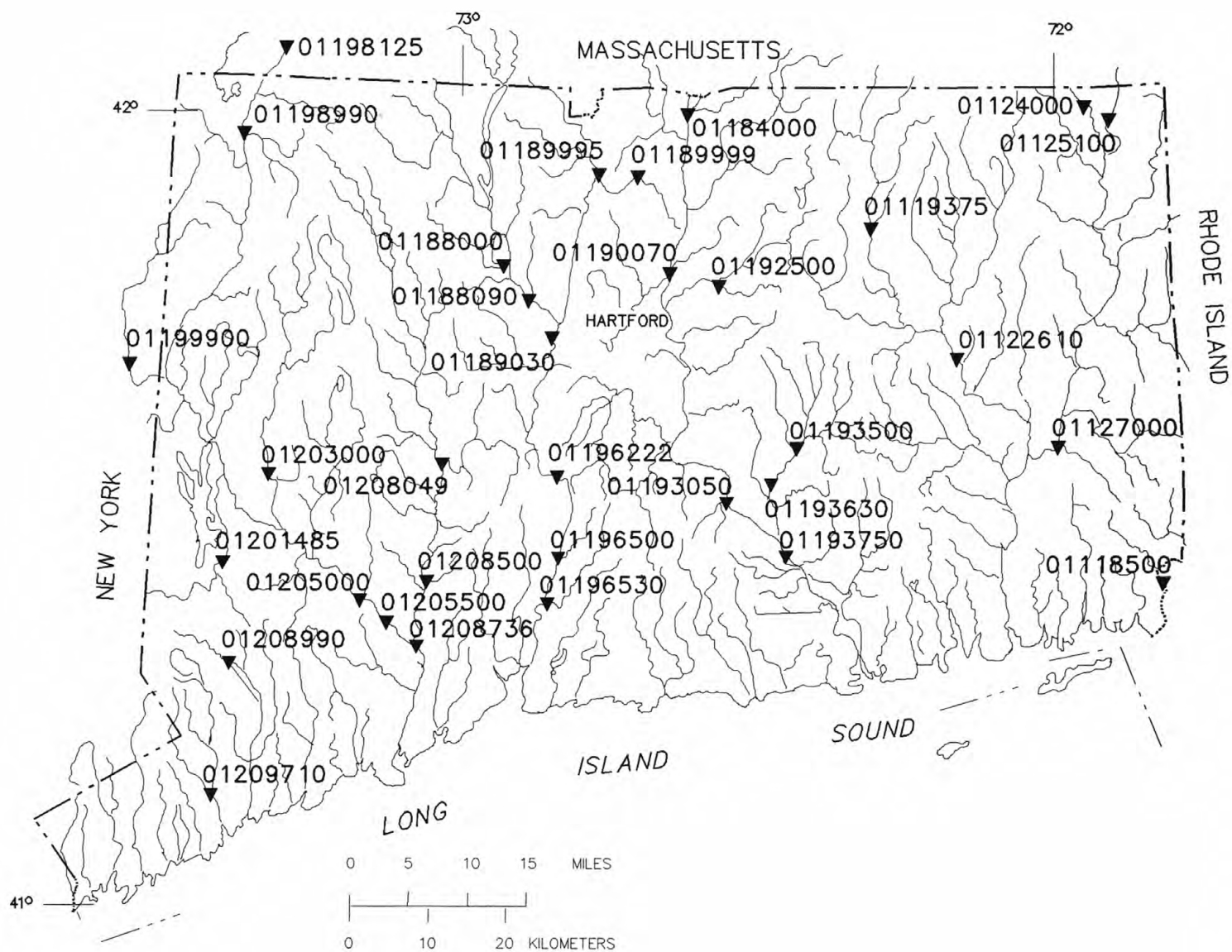


Figure 2.--Location of active surface-water quality stations.

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.

In this report the data presented in the miscellaneous surface water quality section were collected as part of the Connecticut, Thames, and Housatonic Rivers NAWQA section unit sampling.

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 46 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.

Records of Ground-Water Levels--Continued

Data Collection and Computation--Continued

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.

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. 24-26 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.

Data published in the **Quality of Ground-Water** section of this report were collected as part of the Connecticut, Thames, and Housatonic Rivers NAWQA study unit.

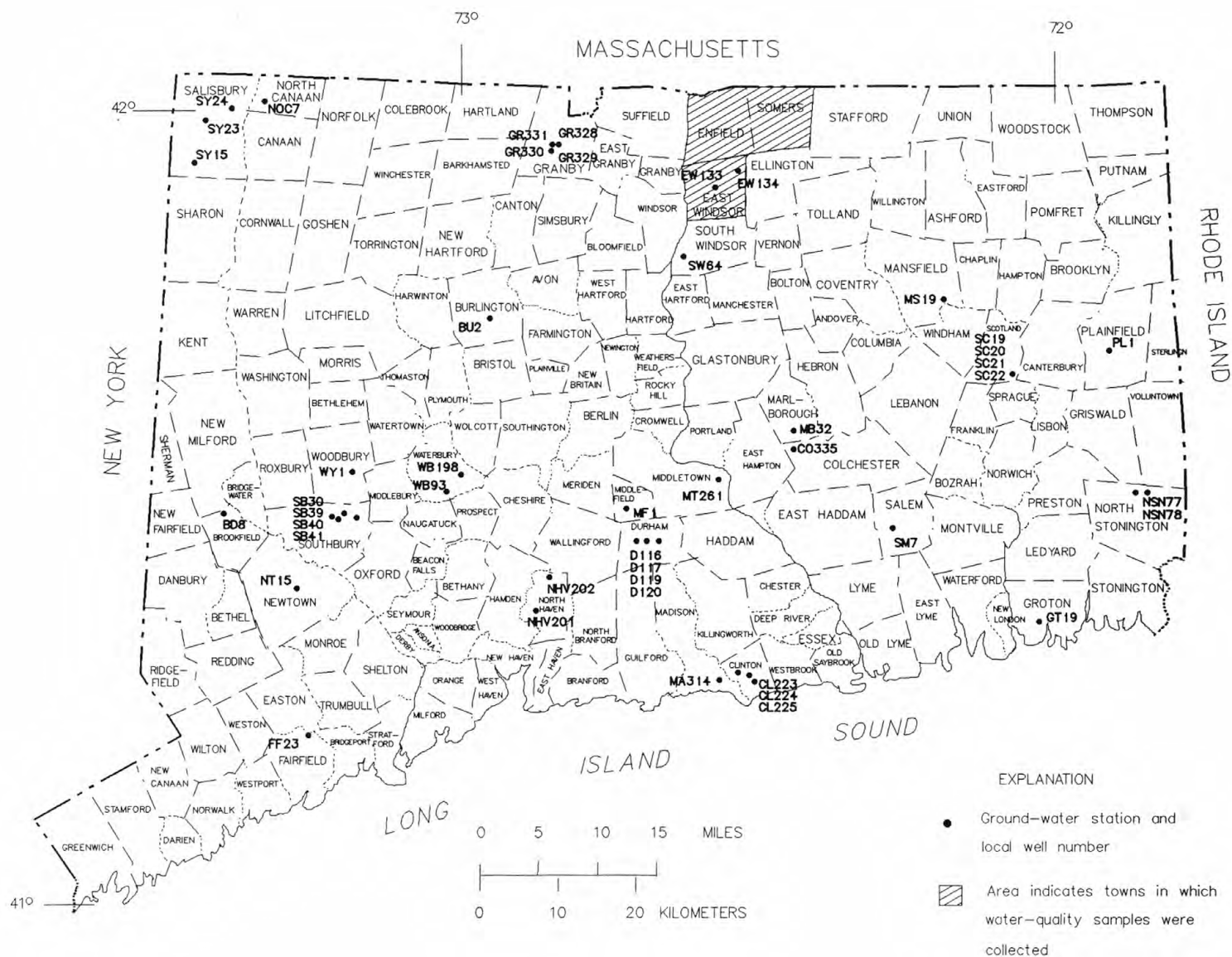


Figure 3.--Location of observation wells and ground-water-quality sampling areas.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- * Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting.

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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° ± 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.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic)

Dissolved refers to that material in a representative water sample which passes through a 0.45-um 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.

DEFINITION OF TERMS--Continued

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).

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in more than one-third of the study units and ultimately will be conducted in 60 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

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.

DEFINITION OF TERMS--Continued

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.

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.

DEFINITION OF TERMS--Continued

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.

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 ($7Q_{10}$) 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.

DEFINITION OF TERMS--Continued

Natural substrate refers to any naturally occurring immersed 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-um 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.

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-um 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:

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

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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.

DEFINITION OF TERMS--Continued

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.

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, 1991, is called the "1991 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. Ficken, 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.
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- 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. Rathburn, N. Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
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- 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.
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WATER RESOURCES DATA - CONNECTICUT, 1992

SURFACE-WATER RECORDS

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

PRINTED OUTPUT

REMARK

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)

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Present data above the ($\mu\text{g/L}$) level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes. However, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols in water year 1994.

SURFACE-WATER RECORDS

31

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 fair. Several measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Satellite telemetry at this station for backup this year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	5.9	7.9	7.6	e11	9.2	13	7.2	37	1.8	.88	1.1
2	2.9	5.4	7.7	6.8	e10	8.7	11	7.8	20	1.5	.59	.92
3	2.8	4.9	16	e6.0	e9.5	8.4	10	7.6	12	1.4	.48	5.0
4	2.8	4.5	21	13	e9.0	8.2	9.5	7.0	8.4	2.5	.73	11
5	2.6	4.2	14	18	e8.6	8.0	9.0	6.6	8.1	2.4	.79	6.0
6	7.8	4.1	11	13	e8.2	7.8	8.5	6.3	24	2.6	.51	3.8
7	7.9	4.0	10	10	e8.0	10	8.2	6.0	15	2.1	.40	3.0
8	5.5	3.9	e9.0	8.8	e7.6	12	8.0	6.2	9.8	1.6	.34	5.5
9	4.3	3.7	e8.5	e8.0	e7.2	10	7.7	10	7.3	1.8	11	6.0
10	3.8	3.8	15	9.7	e7.0	9.4	7.7	8.2	5.6	1.5	13	4.0
11	3.7	12	12	8.4	e6.8	18	8.1	7.2	4.6	1.2	6.2	4.5
12	5.3	15	10	7.2	e6.5	18	8.4	6.5	4.0	.95	6.3	3.7
13	4.3	11	11	e6.0	6.2	13	7.7	6.4	3.6	.94	3.4	2.8
14	3.8	8.4	14	15	7.0	11	7.1	7.0	3.2	.80	3.3	2.3
15	3.8	7.0	12	17	8.4	9.6	6.8	6.3	3.0	1.2	2.9	2.0
16	9.0	6.4	9.9	11	39	8.7	6.9	6.3	2.7	9.3	4.6	1.8
17	7.0	5.7	8.3	9.8	22	8.4	14	6.0	2.5	4.8	11	1.6
18	8.0	5.2	8.0	8.8	15	8.4	17	5.6	2.4	2.9	32	1.6
19	6.5	5.0	7.0	7.6	13	8.6	17	5.4	2.4	2.1	16	1.5
20	5.3	4.9	6.4	6.6	12	9.0	13	4.9	2.6	1.4	8.9	1.3
21	4.6	4.9	e5.8	e6.0	10	9.3	11	4.7	2.6	1.1	5.3	1.2
22	4.4	10	e5.6	e5.5	9.7	9.2	10	4.3	2.3	.86	3.7	1.8
23	4.2	25	e5.4	30	9.4	9.2	11	3.9	2.0	1.1	2.9	3.5
24	4.1	18	e5.2	74	8.9	8.8	9.6	3.7	4.3	1.6	2.4	2.6
25	4.1	14	e5.0	28	8.9	8.9	10	3.9	4.7	1.0	2.1	2.0
26	4.1	11	e4.8	19	15	9.9	9.7	3.9	3.3	.86	1.8	7.6
27	4.1	9.6	e4.6	15	14	29	8.9	4.1	2.9	1.0	1.7	13
28	4.1	8.8	5.2	14	11	20	8.3	3.9	2.9	.86	1.7	7.4
29	4.0	8.4	7.2	e13	11	15	7.8	3.7	2.3	.64	2.0	4.9
30	3.9	8.0	13	e12	---	12	7.4	3.4	2.0	.59	1.5	3.5
31	4.4	---	9.6	e11	---	14	---	3.7	---	.57	1.3	---
TOTAL	146.2	242.7	290.1	425.8	319.9	349.7	292.3	177.7	207.5	54.97	149.72	116.92
MEAN	4.72	8.09	9.36	13.7	11.0	11.3	9.74	5.73	6.92	1.77	4.83	3.90
MAX	9.0	25	21	74	39	29	17	10	37	9.3	32	13
MIN	2.6	3.7	4.6	5.5	6.2	7.8	6.8	3.4	2.0	.57	.34	.92
CFSM	1.17	2.01	2.33	3.42	2.74	2.81	2.42	1.43	1.72	.44	1.20	.97
IN.	1.35	2.25	2.68	3.94	2.96	3.24	2.70	1.64	1.92	.51	1.39	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1992, BY WATER YEAR (WY)

	3.94	8.39	11.7	11.9	12.4	16.1	15.4	10.7	6.64	2.74	2.28	2.10
MEAN	3.94	8.39	11.7	11.9	12.4	16.1	15.4	10.7	6.64	2.74	2.28	2.10
MAX	14.9	19.7	28.8	43.6	22.3	32.7	48.2	23.2	39.3	10.5	12.4	10.4
(WY)	1990	1973	1987	1979	1982	1980	1983	1979	1982	1959	1986	1961
MIN	.83	1.12	1.83	1.69	2.95	6.91	4.78	3.93	1.28	.46	.20	.049
(WY)	1964	1966	1966	1981	1980	1981	1966	1986	1964	1977	1965	1980

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1959 - 1992

ANNUAL TOTAL	2825.51	2773.51	
ANNUAL MEAN	7.74	7.58	8.67
HIGHEST ANNUAL MEAN			13.1
LOWEST ANNUAL MEAN			4.29
HIGHEST DAILY MEAN	53	Jan 17	74
LOWEST DAILY MEAN	.02	Jul 22	.34
ANNUAL SEVEN-DAY MINIMUM	.06	Jul 16	.55
INSTANTANEOUS PEAK FLOW			125
INSTANTANEOUS PEAK STAGE			4.10
INSTANTANEOUS LOW FLOW			b.33
ANNUAL RUNOFF (CFSM)	1.93	1.89	2.16
ANNUAL RUNOFF (INCHES)	26.15	25.67	29.30
10 PERCENT EXCEEDS	15	14	19
50 PERCENT EXCEEDS	6.9	6.7	5.9
90 PERCENT EXCEEDS	.65	1.6	.60

a Peak discharges recomputed following the 1984 water year as a result of revision to rating curve.

b Also occurred Aug. 9.

e Estimated.

PAWCATUCK RIVER BASIN

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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	332	566	589	779	651	884	470	553	269	179	227
2	326	348	549	538	730	597	848	464	875	244	173	208
3	304	353	647	506	661	560	767	458	797	233	161	220
4	282	332	866	573	626	540	710	460	609	240	170	399
5	264	317	931	804	605	520	653	429	487	256	189	453
6	284	303	878	866	573	508	614	414	573	257	167	410
7	373	294	823	808	553	524	585	397	697	244	152	347
8	385	280	769	736	546	617	557	387	640	238	143	316
9	353	276	726	675	533	657	537	449	552	232	219	312
10	323	274	757	655	503	624	522	482	452	229	765	318
11	303	364	803	630	490	691	514	466	390	220	866	299
12	312	661	769	582	485	974	519	428	342	210	766	283
13	311	781	721	544	455	1030	515	401	313	208	643	267
14	294	739	758	579	462	937	493	385	293	206	509	249
15	282	664	803	757	486	831	475	369	275	198	410	232
16	373	590	767	798	848	732	460	367	261	333	388	221
17	436	522	691	661	1110	663	533	370	252	385	462	213
18	446	465	647	633	1050	619	753	352	244	351	756	206
19	443	432	600	579	950	613	887	341	236	292	1010	199
20	405	412	553	520	857	613	886	325	244	253	937	194
21	365	399	553	488	779	599	801	311	330	227	779	185
22	337	418	560	476	701	599	731	299	290	215	620	182
23	317	706	560	566	651	619	704	286	262	208	491	215
24	310	978	562	1420	615	597	674	273	268	224	407	226
25	298	1020	534	1610	592	570	647	263	363	223	359	212
26	294	933	497	1440	658	567	627	257	353	212	322	240
27	289	816	469	1240	761	762	597	262	312	205	284	566
28	289	715	459	1100	747	1050	565	254	295	198	276	629
29	289	645	470	972	702	1080	533	248	280	189	264	550
30	276	596	593	875	---	972	501	241	276	179	244	423
31	294	---	640	822	---	904	---	240	---	167	237	---
TOTAL	10215	15965	20521	24042	19508	21820	19092	11148	12114	7345	13348	9001
MEAN	330	532	662	776	673	704	636	360	404	237	431	300
MAX	446	1020	931	1610	1110	1080	887	482	875	385	1010	629
MIN	264	274	459	476	455	508	460	240	236	167	143	182
CFSM	1.12	1.80	2.24	2.63	2.28	2.39	2.16	1.22	1.37	.80	1.46	1.02
IN.	1.29	2.01	2.59	3.03	2.46	2.75	2.41	1.41	1.53	.93	1.68	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

MEAN	264	465	653	749	811	1025	973	719	507	271	244	226
MAX	1186	1450	1789	2151	1377	1766	2603	1274	2246	642	763	1233
(WY)	1956	1956	1987	1979	1982	1953	1983	1948	1982	1959	1946	1954
MIN	87.2	93.2	115	131	325	495	371	325	210	98.5	81.7	65.7
(WY)	1950	1966	1966	1981	1980	1981	1966	1986	1942	1957	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1941 - 1992

ANNUAL TOTAL	195624	184119	
ANNUAL MEAN	536	503	578
HIGHEST ANNUAL MEAN			871
LOWEST ANNUAL MEAN			251
HIGHEST DAILY MEAN	1570	Apr 23	6220
LOWEST DAILY MEAN	94	Jul 21	25
ANNUAL SEVEN-DAY MINIMUM	99	Jul 17	52
INSTANTANEOUS PEAK FLOW		1640	7070
INSTANTANEOUS PEAK STAGE		6.26	12.86
INSTANTANEOUS LOW FLOW		139	
ANNUAL RUNOFF (CFSM)	1.82	1.71	1.96
ANNUAL RUNOFF (INCHES)	24.67	23.22	26.60
10 PERCENT EXCEEDS	989	822	1190
50 PERCENT EXCEEDS	523	475	452
90 PERCENT EXCEEDS	153	227	131

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, 154 microsiemens Aug. 10; minimum, 64 microsiemens Aug. 21, 22

WATER TEMPERATURES: Maximum, 25.5°C July 13, 20; minimum, 0.5°C Feb. 3-7, 9, 13, 14

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
		(00061)	(US/CM) (00095)	(00400)	(00020)	(00010)	(00080)	(00076)	(MG/L) (00300)	(00301)	(MG/L) (00340)	(MG/L) (00310)
NOV 21...	1100	401	104	6.7	8.0	5.0	--	0.80	12.4	96	--	1.0
JAN 09...	1045	683	90	6.5	6.0	2.5	--	0.90	13.4	98	--	1.0
MAR 16...	1050	730	88	6.5	0.0	2.0	50	0.90	13.7	98	19	1.0
MAY 14...	1040	390	101	7.1	23.0	16.0	--	1.0	9.1	92	--	1.0
JUL 09...	0950	229	104	7.1	26.0	18.5	--	1.2	8.0	86	--	<1.0
SEP 08...	1020	317	92	6.9	25.0	18.5	--	1.6	8.7	92	29	2.0

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF TOTAL (COL / 100 ML) (31649)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)
NOV											
21...	190	31	K8	K18	28	15	4.0	1.2	12	1.3	0
JAN											
09...	80	K7	K9	50	K15	14	3.6	1.1	11	0.90	0
MAR											
16...	42	K13	K2	K2	--	13	3.5	1.1	11	0.80	0
MAY											
14...	160	40	K15	K15	54	18	4.7	1.4	12	1.1	0
JUL											
09...	480	96	73	880	80	18	4.9	1.5	12	1.0	0
SEP											
08...	130	140	45	120	96	16	4.3	1.3	11	1.0	0

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
NOV											
21...	10	8	15	13	0.20	8.7	77	--	87	<0.010	0.330
JAN											
09...	7	6	14	12	0.20	7.8	61	--	53	<0.010	0.320
MAR											
16...	6	5	13	10	0.20	--	--	<1	61	<0.010	0.310
MAY											
14...	11	9	13	13	<0.10	4.3	82	--	73	<0.010	0.360
JUL											
09...	13	11	12	14	0.10	6.5	66	--	54	<0.010	0.520
SEP											
08...	10	8	10	12	0.10	--	72	13	74	<0.010	0.300

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHOS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHOS DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)
NOV 21...	0.350	0.030	0.040	0.27	0.30	0.63	0.030	0.010	<0.010	0.010	--
JAN 09...	0.310	0.040	0.040	0.56	0.60	0.92	0.040	0.020	<0.010	<0.010	--
MAR 16...	--	0.040	--	0.36	0.40	0.71	<0.010	<0.010	0.020	--	110
MAY 14...	0.390	0.060	0.050	0.14	0.20	0.56	0.060	0.010	0.020	0.030	--
JUL 09...	0.550	0.020	0.060	0.28	0.30	0.82	0.020	0.030	0.010	0.020	--
SEP 08...	--	0.030	--	0.37	0.40	0.70	0.040	0.020	0.010	--	--

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
NOV 21...	100	--	10	--	--	<1.0	--	<1	<3	--	1
JAN 09...	100	--	7	--	--	<1.0	--	1	<3	--	2
MAR 16...	--	<1	--	<10	<1	--	1	--	--	<1	--
MAY 14...	60	--	12	--	--	<1.0	--	<1	<3	--	1
JUL 09...	20	--	10	--	--	<1.0	--	<1	<3	--	<1
SEP 08...	--	--	--	--	--	<1.0	--	<1	--	--	1

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)
NOV 21...	--	260	--	2	<4	--	31	--	--	<10	--
JAN 09...	--	170	--	<1	<4	--	27	--	--	<10	--
MAR 16...	190	--	3	--	--	50	--	0.10	2	--	<1
MAY 14...	--	270	--	<1	<4	--	37	--	--	<10	--
JUL 09...	--	320	--	<1	<4	--	27	--	--	<10	--
SEP 08...	--	--	--	<1	--	--	--	--	--	--	--

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)
NOV 21...	<1	--	<1	--	<1.0	30	<6	--	<10	7.7	--
JAN 09...	<1	--	<1	--	<1.0	26	<6	--	20	6.7	--
MAR 16...	--	<1	--	<1	--	--	--	10	--	6.3	3
MAY 14...	<1	--	<1	--	<1.0	34	<6	--	10	4.7	--
JUL 09...	<1	--	<1	--	<1.0	37	<6	--	10	5.8	--
SEP 08...	<1	--	--	--	--	--	--	--	10	12	2

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1991 21...	1100	401		3	3.2
JAN 1992 09...	1045	683		2	3.7
MAY 14...	1040	390		3	3.2
JUL 09...	0950	229		2	1.2

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	-	-	-	102	96	100	-	-	-	99	97	98
2	-	-	-	100	96	98	-	-	-	100	97	98
3	-	-	-	102	97	99	-	-	-	103	97	101
4	-	-	-	107	101	104	-	-	-	118	100	110
5	-	-	-	109	105	107	-	-	-	117	105	111
6	-	-	-	112	107	110	-	-	-	106	93	100
7	-	-	-	110	104	108	-	-	-	93	86	89
8	-	-	-	109	101	106	-	-	-	86	84	85
9	-	-	-	107	101	104	-	-	-	89	85	86
10	-	-	-	107	98	104	154	118	132	92	89	90
11	-	-	-	119	105	108	125	85	100	96	90	92
12	-	-	-	111	105	108	89	81	85	97	93	95
13	-	-	-	111	106	108	87	80	83	96	92	94
14	-	-	-	122	108	110	89	81	84	93	89	91
15	-	-	-	113	97	110	97	89	94	91	89	90
16	-	-	-	121	99	110	101	94	98	94	88	91
17	-	-	-	136	116	124	100	91	96	101	93	96
18	-	-	-	125	119	122	91	78	83	108	101	103
19	-	-	-	120	111	114	81	71	76	112	107	109
20	-	-	-	112	103	107	72	66	67	115	110	112
21	-	-	-	105	101	104	67	64	65	116	112	114
22	-	-	-	112	105	106	68	64	66	113	107	109
23	-	-	-	124	112	114	71	68	69	108	103	105
24	-	-	-	-	-	-	74	71	73	120	106	111
25	143	125	132	-	-	-	79	73	76	120	115	117
26	140	132	135	-	-	-	87	78	84	122	102	115
27	136	120	128	-	-	-	91	85	89	120	96	110
28	121	112	117	-	-	-	96	90	93	96	88	91
29	114	108	111	-	-	-	97	95	96	88	84	85
30	108	101	104	-	-	-	100	97	99	86	81	83
31	---	---	---	-	-	-	99	98	99	---	---	---
MONTH	143	101	121	136	96	108	154	64	87	122	81	99
YEAR	154	64	102									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

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

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. Partial gage height record (no maximums): July 6 to 27.

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, 6.00 ft, Oct. 31; minimum, -2.11 ft, Jan. 25.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	6.00	4.01	4.32	3.67	3.71	3.83	2.96	3.18	3.49	3.33	3.37	3.28
	Date	31	24	3	4	7	27	17	5	6	4	28	26
	Time	0400	1100	0730	0915	2345	0345	2115	2300	0045	1230	2115	0830
Minimum low tide	Elevation	-1.19	-1.59	-2.03	-2.11	-1.70	-1.64	-1.51	-1.16	-1.06	-1.03	-1.15	-1.24
	Date	7	25	21	25	10	18	16	16	4	2	2	29
	Time	0200	1830	1530	0815	0715	0245	0245	0315	0600	0430	0600	1800

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
22...	0920	95	98	7.0	15.5	8.0	1.1	11.4	96	K19	K14
NOV											
08...	1025	68	116	7.1	6.0	7.0	1.0	13.2	109	140	24
DEC											
06...	1020	272	71	6.7	2.0	0.5	0.80	14.0	99	290	K2
JAN											
08...	0910	137	88	6.9	--	1.5	1.2	13.4	96	160	204
MAR											
09...	1015	235	74	6.3	9.0	4.0	1.4	13.0	99	220	84
APR											
13...	0900	277	68	6.7	8.0	4.5	1.2	13.1	100	61	K14
MAY											
22...	0915	88	98	7.3	30.5	16.0	0.60	9.9	101	49	K6
JUN											
11...	0930	175	70	7.1	15.0	16.5	2.1	8.9	91	220	K16
JUL											
17...	0930	211	64	7.2	25.5	18.0	2.6	9.2	98	700	132
17...	0931	--	--	--	--	--	--	--	--	--	--
AUG											
07...	0840	46	134	7.5	25.0	16.0	1.7	9.2	93	170	30
SEP											
14...	1010	40	104	7.6	24.0	14.5	1.7	9.6	94	220	K8

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
22...	20	5.2	1.8	9.9	1.4	0	12	10	14	10	0.10
NOV											
08...	22	5.7	1.9	13	2.0	0	15	12	17	15	0.20
DEC											
06...	15	3.7	1.3	6.4	1.0	0	7	6	9.4	8.0	<0.10
JAN											
08...	18	4.7	1.5	7.6	1.1	0	9	7	13	12	0.20
MAR											
09...	15	3.7	1.4	7.0	1.0	0	8	7	8.7	8.9	0.20
APR											
13...	13	3.3	1.2	5.8	1.0	0	7	6	8.7	8.7	<0.10
MAY											
22...	20	5.4	1.7	9.5	1.3	0	13	11	12	12	0.10
JUN											
11...	15	3.9	1.3	7.0	0.90	0	9	7	11	12	<0.10
JUL											
17...	17	4.3	1.4	6.3	1.0	0	11	9	6.7	7.9	<0.10
17...	15	4.0	1.3	6.2	1.0	--	--	--	6.8	8.0	<0.10
AUG											
07...	27	7.3	2.1	14	2.0	0	17	14	21	15	<0.10
SEP											
14...	22	5.8	1.9	9.8	1.7	0	17	14	9.1	14	0.10

THAMES RIVER BASIN

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01119375 WILLIMANTIC RIVER AT MERROW, --Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 22...	9.9	65	74	0.490	0.010	0.500	0.030	0.37	0.40	0.90	0.120
NOV 08...	8.1	73	95	--	<0.010	0.430	0.060	0.34	0.40	0.83	<0.010
DEC 06...	9.6	53	60	--	<0.010	0.250	0.080	0.22	0.30	0.55	0.010
JAN 08...	9.6	60	54	--	<0.010	0.360	0.100	0.20	0.30	0.66	0.020
MAR 09...	7.8	45	52	--	<0.010	0.330	0.080	0.32	0.40	0.73	0.020
APR 13...	6.7	55	55	--	<0.010	0.280	0.040	--	<0.20	--	<0.010
MAY 22...	5.5	56	77	--	<0.010	0.430	0.030	0.47	0.50	0.93	0.050
JUN 11...	8.1	54	55	--	<0.010	0.220	0.040	0.46	0.50	0.72	0.020
JUL 17...	7.0	56	60	--	<0.010	0.210	0.050	0.25	0.30	0.51	0.040
JUL 17...	7.1	54	62	--	--	--	--	--	--	--	--
AUG 07...	8.0	83	103	--	<0.010	0.730	0.030	0.27	0.30	1.0	0.030
SEP 14...	8.8	63	79	--	<0.010	0.480	<0.010	--	0.30	0.78	0.030

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 22...	0.090	0.090	<1.0	<1	2	230	<1	16	2	6	7.6
NOV 08...	0.100	0.030	<1.0	<1	4	250	<1	14	2	15	4.3
DEC 06...	<0.010	<0.010	<1.0	<1	2	150	<1	25	2	8	4.2
JAN 08...	0.030	<0.010	<1.0	<1	2	110	<1	30	1	12	3.5
MAR 09...	0.010	<0.010	<1.0	<1	1	98	<1	32	<1	27	3.1
APR 13...	<0.010	<0.010	<1.0	<1	2	89	<1	21	2	12	3.7
MAY 22...	0.020	<0.010	<1.0	<1	2	200	<1	42	<1	14	3.7
JUN 11...	0.010	0.010	<1.0	1	2	300	<1	41	2	13	7.3
JUL 17...	<0.010	<0.010	<1.0	<1	2	400	<1	18	<1	28	7.2
JUL 17...	--	--	<1.0	<1	2	400	<1	18	<1	11	--
AUG 07...	<0.010	0.020	<1.0	<1	3	380	<1	24	1	16	6.0
SEP 14...	<0.010	<0.010	<1.0	<1	4	400	<1	15	2	19	4.7

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.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Natural flow of stream regulated by Staffordville Reservoir. High streamflow regulated by six flood-detention reservoirs in Middle River basin, combined usable flood capacity, 305,400,000 ft³.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	96	247	205	e150	204	375	246	259	132	194	52
2	112	99	235	e195	e145	202	335	261	236	102	141	44
3	103	102	339	e180	e135	190	307	359	163	84	97	55
4	100	97	650	237	e130	182	272	331	122	113	78	120
5	89	92	485	279	e125	176	249	282	130	132	93	105
6	254	89	370	259	e120	175	229	245	726	141	80	84
7	449	89	321	219	e118	213	215	222	437	135	64	72
8	280	88	e280	187	e114	354	207	209	278	104	58	68
9	207	94	e260	163	e112	308	198	235	421	93	86	66
10	189	104	e384	e150	e110	262	197	217	327	96	124	63
11	176	378	350	e140	e108	616	205	199	228	83	104	79
12	190	570	306	136	e106	716	321	195	165	72	113	81
13	216	395	302	144	e104	468	346	172	133	78	98	69
14	186	301	364	241	e102	344	269	175	111	72	95	60
15	175	252	423	337	e100	291	228	175	102	178	94	54
16	169	227	352	244	426	250	216	174	91	371	95	51
17	163	198	306	197	331	234	376	175	79	265	153	49
18	128	178	276	e175	244	225	553	166	75	174	352	47
19	169	167	235	e160	227	228	508	153	71	128	346	46
20	152	162	236	e150	220	228	410	136	91	102	233	44
21	128	167	258	e145	202	228	350	127	243	89	185	42
22	124	426	e220	140	184	220	320	115	188	77	165	45
23	122	957	e200	248	175	219	309	105	129	72	112	81
24	119	742	e190	909	174	203	276	97	148	88	80	78
25	119	576	177	453	171	197	456	100	357	81	55	63
26	114	420	156	294	356	215	527	97	276	68	102	85
27	110	339	169	236	402	1060	417	93	224	68	68	100
28	108	304	167	e200	307	822	342	90	240	66	57	84
29	103	279	182	e190	262	526	295	87	188	58	85	67
30	103	262	264	e175	---	396	265	83	144	71	76	53
31	101	---	243	e160	---	399	---	86	---	75	60	---
TOTAL	4880	8250	8947	7148	5460	10351	9573	5407	6382	3468	3743	2007
MEAN	157	275	289	231	188	334	319	174	213	112	121	66.9
MAX	449	957	650	909	426	1060	553	359	726	371	352	120
MIN	89	88	156	136	100	175	197	83	71	58	55	4

MEAN	114	184	232	256	266	407	401	264	185	92.8	91.0	101
MAX	606	631	620	929	619	1050	897	596	869	421	972	1176
(WY)	1956	1956	1974	1979	1970	1936	1940	1989	1982	1938	1955	1938
MIN	15.5	29.0	61.9	35.6	86.3	195	145	108	41.6	22.2	16.9	14.5
(WY)	1958	1932	1932	1981	1980	1989	1985	1957	1957	1957	1957	1957

ANNUAL TOTAL	74991		75616			
ANNUAL MEAN	205		207		216	
HIGHEST ANNUAL MEAN					370	1938
LOWEST ANNUAL MEAN					97.9	1965
HIGHEST DAILY MEAN	1110	Aug 20	1060	Mar 27	12900	Sep 21 1938
LOWEST DAILY MEAN	15	Jul 21	42	Sep 21	2.5	Sep 18 1949
ANNUAL SEVEN-DAY MINIMUM	17	Jul 17	46	Sep 16	9.7	Sep 18 1949
INSTANTANEOUS PEAK FLOW			1250	Mar 27	a24200	Aug 19 1955
INSTANTANEOUS PEAK STAGE			6.70	Mar 27	b18.66	Aug 19 1955
INSTANTANEOUS LOW FLOW			9.5	Aug 25	c2.0	Aug 21 1949
10 PERCENT EXCEEDS	398		372		445	
50 PERCENT EXCEEDS	175		175		148	
90 PERCENT EXCEEDS	30		75		35	

a 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.

b From flood mark.

c Also occurred Aug. 22, 1949 and Oct. 1, 1978.

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 Warrentville, 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Satellite telemetry at this station used for primary stage data. Chemical analyses available for water year 1959 (WSP 1641). Occasional regulation from ponds upstream.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	21	53	e44	e42	58	91	54	92	15	27	11
2	30	20	48	e41	e40	47	77	59	54	12	17	11
3	28	20	96	e39	e38	44	67	86	32	9.8	9.4	19
4	27	19	206	55	e36	42	60	63	22	23	13	39
5	25	18	104	72	35	42	55	54	23	25	27	25
6	119	18	81	e56	33	42	51	48	245	25	12	19
7	98	17	72	47	32	60	47	43	144	19	8.4	16
8	57	17	77	41	31	100	45	41	81	13	6.8	15
9	44	16	78	e37	30	72	44	52	73	13	35	15
10	39	20	98	e35	e29	61	44	46	47	12	36	13
11	36	168	72	e33	e28	173	46	41	35	9.2	20	20
12	59	170	63	e31	27	141	68	36	29	7.6	18	15
13	42	97	67	e30	e26	89	56	38	24	8.0	13	11
14	33	69	93	93	e25	69	46	48	20	8.5	15	9.6
15	28	55	94	92	29	60	41	36	17	33	14	8.2
16	38	48	70	72	181	53	41	36	14	75	18	7.7
17	36	42	62	e50	87	50	116	33	13	35	72	7.3
18	55	38	59	e44	62	46	143	30	11	23	141	6.5
19	44	35	63	e39	e56	48	116	28	11	17	70	6.1
20	34	33	56	e35	e50	50	87	25	22	13	40	5.7
21	30	38	49	e32	e47	49	74	22	24	10	26	5.2
22	27	169	47	e30	43	46	70	19	16	8.5	19	6.3
23	25	302	45	112	e41	47	71	17	13	8.5	18	27
24	24	168	e43	372	e39	44	62	15	23	13	15	13
25	24	145	e41	105	e37	44	146	17	56	9.1	13	8.7
26	25	94	e39	e80	133	56	128	16	31	7.4	12	10
27	24	73	e37	e68	104	467	92	15	46	7.8	12	20
28	25	65	e35	e56	72	197	75	14	50	8.1	12	16
29	21	60	46	e50	60	118	65	12	28	7.1	15	11
30	19	56	85	e47	---	90	57	11	20	9.3	13	11
31	18	---	e50	e44	---	107	---	13	---	8.6	12	---
TOTAL	1166	2111	2129	1982	1493	2612	2181	1068	1316	493.5	779.6	408.3
MEAN	37.6	70.4	68.7	63.9	51.5	84.3	72.7	34.5	43.9	15.9	25.1	13.6
MAX	119	302	206	372	181	467	146	86	245	75	141	39
MIN	18	16	35	30	25	42	41	11	11	7.1	6.8	5.2
CFSM	1.32	2.46	2.40	2.24	1.80	2.95	2.54	1.20	1.53	.56	.88	.48
IN.	1.52	2.75	2.77	2.58	1.94	3.40	2.84	1.39	1.71	.64	1.01	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

	MEAN	26.3	47.6	60.2	66.2	73.1	106	93.3	61.5	37.3	15.0	16.9	16.1
MAX	144	131	163	264	203	219	197	119	207	60.4	148	118	
(WY)	1956	1956	1974	1979	1970	1972	1983	1984	1982	1972	1955	1954	
MIN	3.44	7.64	14.4	12.0	16.2	47.4	29.7	19.0	4.99	1.35	.79	1.05	
(WY)	1958	1950	1944	1981	1980	1981	1985	1957	1957	1957	1957	1953	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1941 - 1992
ANNUAL TOTAL	18276.79	17739.4	
ANNUAL MEAN	50.1	48.5	51.5
HIGHEST ANNUAL MEAN			75.0
LOWEST ANNUAL MEAN			26.0
HIGHEST DAILY MEAN	350	Mar 4	2640
LOWEST DAILY MEAN	.99	Jul 21	.20
ANNUAL SEVEN-DAY MINIMUM	1.2	Jul 19	.40
INSTANTANEOUS PEAK FLOW		701	5590
INSTANTANEOUS PEAK STAGE		5.77	10.41
INSTANTANEOUS LOW FLOW		4.7	.15
ANNUAL RUNOFF (CFSM)	1.75	1.69	1.80
ANNUAL RUNOFF (INCHES)	23.77	23.07	24.45
10 PERCENT EXCEEDS	112	93	113
50 PERCENT EXCEEDS	38	38	31
90 PERCENT EXCEEDS	3.2	11	4.1

a From rating curve extended above 890 ft³/s on basis of contracted-opening measurement of peak flow.

b From floodmarks in gage well.

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 periods of estimated record, which are fair. Several measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. U. S. Army Corps of Engineers satellite telemetry for stage and discharge is on site. Flow regulated by mills and flood detention reservoirs on Willimantic River, by pumping for municipal water supply of city of Willimantic on the Natchaug River, and by Mansfield Hollow Lake flood-control reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	375	367	903	698	e640	912	1380	812	662	377	316	148
2	366	351	842	e650	e600	813	1310	807	784	299	296	133
3	347	344	1030	e600	e570	635	1180	1000	593	254	238	154
4	327	329	2070	e700	e530	565	903	997	409	292	200	294
5	304	315	1850	969	e480	592	839	858	367	349	210	284
6	676	305	1400	869	e470	604	800	758	2590	382	213	241
7	1250	313	1200	777	e450	682	748	686	2310	381	184	212
8	961	300	e1100	712	e440	1190	662	636	1480	310	166	196
9	989	294	e1000	e600	e430	1190	635	706	1320	273	236	184
10	700	328	e1100	e550	e420	1080	646	690	1120	261	345	174
11	535	868	e1200	e520	e415	1760	688	638	809	233	350	234
12	645	1610	1120	e560	e410	2460	796	586	493	213	357	268
13	687	1650	1150	595	e408	1790	891	543	386	286	291	236
14	579	1530	1380	798	e405	1160	810	556	324	232	271	281
15	516	1030	1480	1120	e400	910	750	569	302	317	263	269
16	545	661	1270	835	1160	747	730	540	239	866	282	120
17	566	654	1130	e700	1080	701	1090	535	207	711	524	117
18	652	635	1000	e660	950	686	1630	498	184	557	1230	114
19	685	602	785	e620	908	728	1620	457	183	454	1380	109
20	622	577	731	e580	858	803	1460	428	362	384	911	107
21	535	560	e700	e560	785	824	1390	371	703	299	501	104
22	488	1180	e660	548	713	732	1280	351	438	244	433	108
23	499	2450	e640	724	680	732	1140	321	337	222	347	169
24	437	2050	e620	2690	625	701	864	294	329	232	269	163
25	485	2040	e600	1910	432	687	1170	283	716	220	235	140
26	481	2190	e590	1410	959	752	1540	275	648	194	232	164
27	457	1950	e570	1070	1350	3000	1400	267	636	186	215	227
28	445	1480	e550	973	1080	3410	1270	253	690	176	181	195
29	425	1140	e600	860	1000	2520	1090	243	557	173	204	165
30	404	985	868	755	---	1840	907	231	446	180	204	138
31	386	---	802	e660	---	1410	---	234	---	185	180	---
TOTAL	17369	29088	30941	26273	19648	36616	31619	16423	20624	9742	11264	5448
MEAN	560	970	998	848	678	1181	1054	530	687	314	363	182
MAX	1250	2450	2070	2690	1350	3410	1630	1000	2590	866	1380	294
MIN	304	294	550	520	400	565	635	231	183	173	166	104

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	MEAN	379	625	787	865	911	1400	1333	857	566	270	249	301
MAX	2246	2156	2228	2945	2246	3949	2943	1814	2911	1755	2114	3571	
(WY)	1956	1956	1973	1979	1970	1936	1987	1989	1982	1938	1955	1938	
MIN	49.4	85.0	170	132	236	628	454	319	110	48.6	44.5	45.0	
(WY)	1958	1932	1931	1981	1980	1989	1985	1957	1957	1957	1957	1957	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1929 - 1992	
ANNUAL TOTAL	268162		255055		710	
ANNUAL MEAN	735		697		1243	
HIGHEST ANNUAL MEAN					1938	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	3180	Mar 5	3410	Mar 28	35500	Sep 21 1938
LOWEST DAILY MEAN	55	Jul 21	104	Sep 21	19	Aug 22 1949
ANNUAL SEVEN-DAY MINIMUM	61	Jul 17	111	Sep 16	33	Aug 14 1957
INSTANTANEOUS PEAK FLOW			4320	Mar 27	a52200	Sep 21 1938
INSTANTANEOUS PEAK STAGE			7.79	Mar 27	b27.60	Sep 21 1938
INSTANTANEOUS LOW FLOW			101	Sep 18	15	Aug 29 1949
10 PERCENT EXCEEDS	1570		1360		1560	
50 PERCENT EXCEEDS	603		597		462	
90 PERCENT EXCEEDS	98		209		104	

a From rating curve extended above 11,000 ft³/s on basis of computation of peak flow over Scotland and Baltic Dams, 5 and 9 miles downstream, respectfully, adjusted for flow from intervening area.

b From floodmarks.

e Estimated

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, 244 microsiemens July 23; minimum, 51 microsiemens March 28.

WATER TEMPERATURE: Maximum, 25.5°C July 11, 20-22; minimum 0.0°C on numerous days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	
OCT 29...	1430	501	94	7.8	14.0	11.5	2.1	11.4	103	260	144	--	
NOV 20...	1300	519	86	7.2	20.0	3.5	1.5	14.2	107	440	70	68	
DEC 10...	1415	1430	79	6.7	11.0	5.0	1.3	13.0	102	140	K19	--	
JAN 10...	1410	672	89	6.8	6.0	2.5	0.80	14.1	105	K6	21	33	
MAR 23...	1035	707	88	6.6	2.0	2.0	0.70	14.0	101	80	24	--	
APR 15...	1320	766	84	7.3	14.0	9.5	1.0	12.8	111	<1	K6	--	
MAY 26...	1035	280	101	7.5	16.0	15.5	1.0	10.1	102	190	K7	K3	
JUN 16...	1300	295	98	7.8	23.0	21.0	0.80	9.7	108	80	K15	--	
JUL 10...	1300	327	95	8.4	29.5	22.5	1.1	10.8	125	80	K16	K10	
AUG 13...	1350	284	100	8.6	24.0	20.5	1.7	10.6	117	230	K8	--	
SEP 15...	1320	302	99	8.6	26.0	20.0	1.1	11.0	120	100	K11	--	
DATE		COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 29...	--	24	6.5	1.9	8.3	1.7	0	19	16	9.5	13	0.10	
NOV 20...	420	20	5.5	1.6	7.6	1.6	0	16	13	9.8	11	0.10	
DEC 10...	--	18	5.0	1.4	6.2	1.3	0	13	11	7.9	8.2	0.10	
JAN 10...	25	21	5.9	1.6	7.0	1.2	0	14	11	8.4	9.4	0.10	
MAR 23...	--	20	5.2	1.6	7.7	1.2	0	12	10	9.4	11	0.20	
APR 15...	--	18	4.9	1.5	6.9	1.2	0	12	10	8.5	9.6	<0.10	
MAY 26...	200	24	6.5	1.8	8.3	1.5	0	21	17	9.6	13	<0.10	
JUN 16...	--	23	6.4	1.7	8.4	1.5	0	18	15	13	16	0.20	
JUL 10...	62	23	6.3	1.7	8.1	1.3	0	20	16	7.9	12	<0.10	
AUG 13...	--	25	6.9	1.8	8.2	1.7	0	21	17	8.5	12	<0.10	
SEP 15...	--	25	6.7	1.9	7.9	1.7	0	22	18	7.2	12	0.10	

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT 29...	8.1	60	68	0.250	0.030	0.280	--	0.110	--	0.39	0.50	0.78
NOV 20...	8.5	61	65	0.220	0.010	0.230	0.200	0.120	0.010	0.18	0.30	0.53
DEC 10...	9.5	51	53	0.320	0.010	0.330	--	0.080	--	0.12	0.20	0.53
JAN 10...	9.4	52	53	0.600	0.020	0.620	0.640	0.060	0.060	--	<0.20	--
MAR 23...	7.6	48	49	--	<0.010	0.380	--	0.060	--	--	<0.20	--
APR 15...	6.1	57	50	0.290	0.010	0.300	--	0.080	--	0.22	0.30	0.60
MAY 26...	5.7	63	57	0.370	0.020	0.390	0.380	0.130	0.130	0.47	0.60	0.99
JUN 16...	7.6	66	81	0.410	0.020	0.430	--	0.090	--	0.21	0.30	0.73
JUL 10...	6.8	58	57	0.350	0.020	0.370	0.380	0.070	0.070	0.23	0.30	0.67
AUG 13...	6.0	59	79	0.280	0.030	0.310	--	0.060	--	0.24	0.30	0.61
SEP 15...	6.7	54	71	0.250	0.020	0.270	--	0.070	--	0.33	0.40	0.67

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 29...	0.080	<0.010	0.030	--	--	--	<1.0	<1	--	2	200
NOV 20...	0.030	<0.010	0.030	<0.010	30	7	<1.0	<1	<3	1	170
DEC 10...	0.020	0.020	0.010	--	--	--	<1.0	<1	--	1	130
JAN 10...	0.020	0.030	0.020	0.020	10	5	<1.0	<1	<3	<1	140
MAR 23...	0.020	0.020	0.010	--	--	--	<1.0	2	--	<1	91
APR 15...	0.030	<0.010	0.010	--	--	--	<1.0	1	--	<1	93
MAY 26...	0.070	0.060	0.020	0.020	20	7	<1.0	<1	<3	2	260
JUN 16...	0.050	<0.010	0.020	--	--	--	<1.0	<1	--	2	360
JUL 10...	0.050	0.030	0.030	0.020	<10	5	<1.0	<1	<3	1	360
AUG 13...	0.030	0.020	0.020	--	--	--	<1.0	<1	--	1	270
SEP 15...	0.040	0.010	0.020	--	--	--	<1.0	<1	--	1	280

THAMES RIVER BASIN

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01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 29...	<1	--	9	--	3	--	--	--	--	7	5.5
NOV 20...	1	<4	17	<10	<1	<1	<1.0	33	<6	<10	4.5
DEC 10...	<1	--	19	--	<1	--	--	--	--	10	3.8
JAN 10...	<1	<4	23	<10	<1	<1	<1.0	32	<6	10	4.1
MAR 23...	<1	--	23	--	<1	--	--	--	--	8	2.7
APR 15...	<1	--	18	--	<1	--	--	--	--	11	3.5
MAY 26...	<1	<4	31	<10	<1	<1	<1.0	40	<6	<10	4.0
JUN 16...	<1	--	18	--	1	--	--	--	--	11	4.6
JUL 10...	<1	<4	8	<10	<1	<1	<1.0	37	<6	<10	3.8
AUG 13...	<1	--	13	--	<1	--	--	--	--	4	5.7
SEP 15...	<1	--	7	--	<1	--	--	--	--	<3	4.4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 20...	1300	519		2	2.8	83
JAN 10...	1410	672		3	5.4	30
MAY 26...	1035	280		4	3.0	89
JUL 10...	1300	327		4	3.5	61

THAMES RIVER BASIN

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	91	82	87	103	98	100	82	77	79	105	97	103
2	92	79	86	105	101	103	86	81	83	105	100	103
3	97	90	94	105	96	101	93	85	88	105	99	101
4	100	87	95	109	102	106	91	82	87	104	99	101
5	101	97	99	110	104	108	82	78	80	100	92	96
6	101	95	98	111	104	108	88	80	83	96	92	94
7	97	78	86	111	102	107	86	83	84	95	91	93
8	80	70	76	108	104	106	85	80	83	99	94	96
9	82	68	75	112	106	108	85	79	82	113	96	101
10	87	74	80	112	106	110	87	82	86	103	97	100
11	90	81	86	108	94	102	89	80	85	105	100	102
12	96	89	92	94	80	86	87	83	86	105	99	103
13	98	89	94	80	74	76	87	82	84	106	97	102
14	106	94	100	81	72	77	86	81	83	106	96	102
15	108	100	104	88	78	82	88	86	86	101	91	98
16	108	101	104	90	86	88	89	85	87	95	88	90
17	110	103	106	91	84	87	90	87	88	100	92	95
18	111	78	92	92	83	88	99	88	93	100	93	96
19	91	76	84	88	78	84	102	97	99	103	97	100
20	98	88	92	87	79	84	103	99	102	101	95	98
21	99	91	96	87	84	85	140	100	111	101	97	99
22	98	83	92	90	82	86	108	104	106	101	96	99
23	98	86	93	82	73	76	111	102	106	188	98	119
24	96	85	92	73	70	72	106	102	104	106	77	86
25	96	86	90	74	69	71	106	103	105	77	73	75
26	95	85	90	73	66	70	106	100	104	81	76	79
27	96	89	93	77	69	74	106	100	104	81	78	80
28	99	91	95	77	71	75	106	98	103	81	79	80
29	101	92	97	80	72	77	111	102	105	87	80	83
30	101	92	97	81	76	79	106	99	103	87	83	86
31	100	97	98	---	---	---	105	99	102	87	83	85
MONTH	111	68	92	112	66	89	140	77	93	188	73	95
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	86	83	84	74	70	72	71	63	66	87	79	83
2	86	82	84	76	72	74	73	65	68	87	79	84
3	87	82	85	83	75	78	74	68	71	87	79	84
4	91	84	87	85	78	82	77	72	74	87	80	84
5	93	89	90	84	77	80	79	75	77	88	81	85
6	93	86	90	82	77	80	81	74	77	91	82	87
7	94	89	91	83	79	81	85	76	80	92	85	89
8	95	91	93	79	70	75	89	83	85	94	91	92
9	96	91	94	74	66	70	89	84	87	94	85	90
10	97	91	94	67	65	66	113	87	93	92	86	90
11	97	90	94	73	65	68	93	89	91	92	84	88
12	96	92	94	67	60	63	93	89	91	94	85	90
13	96	91	94	66	62	63	93	85	89	92	88	91
14	130	90	102	72	65	67	90	84	87	-	-	-
15	118	96	102	72	68	71	93	82	89	-	-	-
16	119	95	104	76	70	72	90	85	88	-	-	-
17	100	80	87	78	74	76	92	87	89	-	-	-
18	81	75	78	82	74	79	88	80	83	-	-	-
19	78	75	77	84	81	82	81	77	79	-	-	-
20	79	73	76	85	78	82	79	73	77	-	-	-
21	78	73	76	85	75	80	77	71	73	-	-	-
22	77	75	76	78	74	76	80	75	77	-	-	-
23	77	72	75	88	76	84	85	75	80	-	-	-
24	82	75	77	85	76	79	90	84	86	-	-	-
25	92	82	86	77	70	73	91	85	88	-	-	-
26	93	76	85	75	70	73	86	79	82	-	-	-
27	79	70	74	72	57	62	82	76	79	-	-	-
28	71	67	69	57	51	54	83	74	79	-	-	-
29	74	68	71	60	54	56	84	73	80	-	-	-
30	---	---	---	62	55	59	86	77	82	-	-	-
31	---	---	---	67	60	63	---	---	---	-	-	-
MONTH	130	67	86	88	51	72	113	63	82	94	79	87

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	-	-	-	139	109	120	117	103	110	142	119	130
2	-	-	-	182	123	145	115	94	104	159	122	136
3	92	81	87	201	84	132	107	95	100	146	127	137
4	100	84	92	114	97	103	112	107	110	127	118	122
5	104	82	97	142	114	129	111	93	103	126	116	122
6	82	62	69	122	89	106	115	101	107	130	104	116
7	97	67	77	122	86	98	139	115	127	117	105	111
8	-	-	-	102	90	97	142	96	117	122	106	114
9	-	-	-	131	92	105	112	82	97	126	112	121
10	78	69	74	137	108	123	96	83	88	122	110	115
11	87	74	78	121	95	108	96	81	89	132	122	128
12	95	80	86	120	95	107	95	83	87	138	110	122
13	96	84	90	108	89	99	96	85	92	132	103	113
14	100	87	94	111	99	105	101	92	96	129	104	118
15	106	89	96	114	107	111	102	93	98	129	100	110
16	114	97	103	108	87	95	101	95	98	162	128	144
17	117	98	107	100	80	88	98	89	95	208	160	182
18	118	106	113	106	88	93	89	80	83	208	137	186
19	118	107	113	106	87	97	86	73	80	175	163	170
20	126	85	107	239	106	162	95	78	85	181	152	166
21	128	82	105	241	155	216	112	94	101	211	164	178
22	112	96	101	215	195	204	121	105	113	211	177	196
23	115	89	96	244	147	195	126	102	112	177	118	129
24	144	99	117	240	104	147	163	114	134	139	124	132
25	113	87	96	107	88	96	186	145	159	139	129	134
26	103	80	88	117	95	104	200	170	188	135	118	126
27	130	83	101	125	99	112	221	188	196	120	113	118
28	90	79	85	122	98	106	234	122	187	124	112	118
29	117	89	93	116	97	107	224	127	182	122	111	116
30	171	89	126	112	101	107	243	133	197	126	117	121
31	---	---	---	115	104	110	147	125	136	---	---	---
MONTH	171	62	96	244	80	120	243	73	118	211	100	134
YEAR	244	51	98									

TEMPERATURE, WATER (DEG C.), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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

01122610 SHETUCKET RIVER AT SOUTH WINDHAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

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

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 fair. Several measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	21	e46	e54	e45	49	93	49	111	23	19	11
2	20	21	e44	e46	e43	45	80	53	81	19	16	10
3	18	20	68	e42	e41	43	72	60	51	17	13	10
4	17	19	158	e56	e39	42	65	54	37	25	12	31
5	17	19	100	e74	e37	41	61	48	38	29	13	24
6	72	18	76	e60	e35	40	58	44	259	28	11	22
7	63	17	e64	e50	e34	57	54	41	136	26	10	14
8	39	17	e60	e44	e33	91	51	41	84	20	9.4	14
9	30	17	e58	e40	e32	67	49	51	68	18	20	16
10	26	19	82	e37	e30	58	46	48	51	17	34	14
11	24	63	77	e35	e29	207	48	44	41	15	25	18
12	35	127	e60	e33	e28	180	51	39	39	14	38	18
13	30	82	e56	e32	e27	104	48	42	31	32	20	14
14	25	59	76	e60	e30	80	45	68	28	21	19	13
15	23	48	87	e96	e35	68	42	51	24	46	19	12
16	29	44	66	e70	148	59	41	44	21	112	27	11
17	28	38	60	e55	89	e56	87	42	19	61	66	11
18	53	34	e54	e47	65	e54	111	38	18	43	107	10
19	48	32	e52	e43	63	e52	106	36	17	33	69	10
20	37	30	e48	e40	58	e50	84	32	19	25	43	11
21	31	30	45	e35	52	e49	72	29	19	20	32	9.9
22	30	78	e44	e32	46	e48	68	27	18	17	24	9.3
23	28	221	e43	e80	45	e47	78	24	17	16	19	12
24	26	135	e42	e350	43	e47	66	22	22	20	16	14
25	26	103	e40	e250	43	49	83	22	45	18	15	12
26	43	75	e39	e90	100	62	85	22	30	15	14	11
27	33	60	e38	e70	83	328	70	21	34	14	13	17
28	25	53	e37	e60	65	168	63	20	52	15	12	17
29	25	52	e36	e56	58	115	58	19	32	14	13	14
30	21	50	78	e52	---	93	53	18	25	14	12	12
31	20	---	58	e48	---	103	---	19	---	14	11	---
TOTAL	963	1602	1892	2137	1476	2552	1988	1168	1467	801	771.4	422.2
MEAN	31.1	53.4	61.0	68.9	50.9	82.3	66.3	37.7	48.9	25.8	24.9	14.1
MAX	72	221	158	350	148	328	111	68	259	112	107	31
MIN	17	17	36	32	27	40	41	18	17	14	9.4	9.3
CFSM	1.04	1.78	2.03	2.30	1.70	2.74	2.21	1.26	1.63	.86	.83	.47
IN.	1.19	1.99	2.35	2.65	1.83	3.16	2.47	1.45	1.82	.99	.96	.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1992, BY WATER YEAR (WY)

	MEAN	32.9	54.7	67.7	75.3	78.5	106	102	68.0	44.0	21.2	19.8	17.5
MAX	186	147	177	288	172	221	229	133	221	73.5	116	77.6	
(WY)	1956	1956	1973	1979	1970	1972	1983	1967	1982	1972	1955	1954	
MIN	5.25	9.39	15.3	11.6	19.4	50.6	29.2	26.8	12.6	5.85	6.04	4.98	
(WY)	1964	1966	1966	1981	1980	1985	1985	1957	1957	1957	1965	1965	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1952 - 1992

ANNUAL TOTAL	18624.3	17239.6	
ANNUAL MEAN	51.0	47.1	57.2
HIGHEST ANNUAL MEAN			86.2
LOWEST ANNUAL MEAN			25.1
HIGHEST DAILY MEAN	309	Jan 17	350
LOWEST DAILY MEAN	5.9	Jul 21	9.3
ANNUAL SEVEN-DAY MINIMUM	6.5	Jul 17	10
INSTANTANEOUS PEAK FLOW			406
INSTANTANEOUS PEAK STAGE			3.81
INSTANTANEOUS LOW FLOW			8.6
ANNUAL RUNOFF (CFSM)	1.70		1.57
ANNUAL RUNOFF (INCHES)	23.08		21.38
10 PERCENT EXCEEDS	101		83
50 PERCENT EXCEEDS	44		40
90 PERCENT EXCEEDS	9.0		14

a From rating curve extended above 820 ft³/s.

b From high water marks in well.

c Also occurred Aug. 20, 22, 1988

e Estimated

THAMES RIVER BASIN

011230695 SHETUCKET RIVER AT TAFTVILLE, CT

LOCATION.--Lat 41°34'06", long 72°02'44", New London County, Hydrologic Unit 01100002, on right bank 900 ft upstream from bridge on Route 169, at Helikon Furniture Company, 0.9 mi upstream confluence of Quinebaug River, and at Taftville.

DRAINAGE AREA.--512 mi².

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.12 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Flow regulated by mills and flood detention reservoirs on Willimantic River, on Natchaug River by pumping for municipal supply of city of Willimantic, by Mansfield Hollow Lake, and by power regulation at Taftville Dam 0.2 mi upstream. Satellite telemetry at this station used for primary stage data.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	569	442	892	924	968	e1200	1840	994	802	e600	314	224
2	370	440	1230	928	883	e950	1650	799	1210	e500	339	292
3	411	341	1210	861	849	e800	1600	1280	895	e440	377	142
4	354	459	2300	955	887	698	1330	1290	713	e370	325	346
5	367	381	2380	1380	802	745	1070	1130	400	e450	153	404
6	674	355	1820	1260	974	e720	1100	910	2720	e500	274	337
7	1440	382	1550	1030	844	e900	1000	879	3280	e540	274	309
8	1200	343	1460	963	890	e1450	861	774	1840	e470	168	286
9	1200	371	1400	889	882	e1400	792	885	1640	e420	246	115
10	890	361	1540	e840	798	e1300	873	890	1460	e380	477	236
11	625	770	1650	e800	891	e2000	807	741	1160	e350	417	295
12	756	1930	1330	782	891	e3000	900	718	699	e320	608	299
13	802	2030	1500	842	1130	e2200	1160	827	519	e300	435	302
14	722	1870	1650	984	869	1630	985	664	442	e250	373	307
15	623	1530	1830	1580	856	1250	920	757	411	e500	336	538
16	608	839	1650	1230	1820	996	867	670	329	e1300	422	46
17	699	787	1410	e1000	2120	842	1180	423	321	e600	818	130
18	812	809	1220	e900	1500	863	1950	694	258	e400	1420	262
19	797	756	1090	e850	e1400	772	2100	578	164	e250	1850	44
20	568	697	882	e820	e1200	1000	1900	561	351	204	1440	44
21	876	646	e820	e800	e1100	1030	1780	522	722	324	719	218
22	578	1110	e800	e760	e1000	960	1640	434	701	345	579	235
23	582	2850	e780	1100	e920	986	1570	407	467	422	504	42
24	636	2730	e760	3570	e840	855	1270	375	432	288	357	202
25	488	2380	e740	2690	e700	884	1170	362	737	292	342	282
26	504	2500	e730	2310	e1100	919	1830	374	856	293	325	188
27	595	2330	e720	2310	e1800	1440	1790	342	733	203	316	135
28	507	1800	789	2000	e1500	4640	1650	371	881	190	303	488
29	525	1480	817	1210	e1300	3000	1490	341	726	290	208	384
30	469	1270	1240	972	---	2520	1170	317	e700	265	186	136
31	468	---	1100	983	---	1820	---	308	---	120	219	---
TOTAL	20715	34989	39290	38523	31714	43770	40245	20617	26569	12176	15124	7268
MEAN	668	1166	1267	1243	1094	1412	1341	665	886	393	488	242
MAX	1440	2850	2380	3570	2120	4640	2100	1290	3280	1300	1850	538
MIN	354	341	720	760	700	698	792	308	164	120	153	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	1320	1031	1108	1220	1335	1454	1321	1173	596	257	560	315
MAX	2074	1166	1488	1313	1891	1850	1486	1654	886	393	652	520
(WY)	1990	1992	1991	1990	1990	1991	1990	1990	1992	1992	1991	1991
MIN	668	896	567	1105	1029	1099	1136	665	292	124	488	181
(WY)	1992	1991	1990	1991	1991	1990	1991	1992	1991	1991	1992	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	335082	331000	
ANNUAL MEAN	918	904	933
HIGHEST ANNUAL MEAN			961
LOWEST ANNUAL MEAN			904
HIGHEST DAILY MEAN	3830	Mar 5	4640
LOWEST DAILY MEAN	40	Jul 20	42
ANNUAL SEVEN-DAY MINIMUM	89	Jul 11	139
INSTANTANEOUS PEAK FLOW			5030
INSTANTANEOUS PEAK STAGE			10.32
INSTANTANEOUS LOW FLOW			441
10 PERCENT EXCEEDS	1990	1800	2050
50 PERCENT EXCEEDS	760	800	810
90 PERCENT EXCEEDS	127	289	189

a Also occurred on Sept. 27 and 30.

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, and by smaller reservoirs upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	244	529	237	e190	317	585	392	293	142	67	57
2	247	207	496	e210	e180	293	528	321	229	114	109	54
3	207	209	e450	e180	e170	255	469	501	225	100	75	51
4	191	241	692	134	e160	260	445	488	158	76	94	148
5	180	171	624	270	116	150	396	451	151	115	85	135
6	449	244	573	231	179	208	342	425	387	126	79	131
7	505	209	542	e210	182	255	216	382	361	103	60	82
8	505	59	520	188	165	386	268	316	341	115	56	88
9	446	142	531	245	144	376	242	332	314	117	140	97
10	384	61	566	295	e140	359	313	312	243	96	123	84
11	312	346	542	242	e135	534	271	280	196	76	135	95
12	446	629	508	e240	e132	597	376	267	173	75	194	87
13	323	579	497	e220	e130	650	371	264	173	73	116	51
14	371	553	527	e210	127	596	341	319	120	67	151	104
15	326	534	560	386	136	437	283	258	105	85	84	67
16	317	549	512	276	387	385	262	267	89	192	109	41
17	295	516	447	e270	327	335	448	247	82	152	162	62
18	390	423	e400	e250	304	303	579	218	73	173	418	39
19	331	474	e310	e240	288	293	544	151	68	155	308	63
20	376	313	e270	e230	271	e270	505	188	84	132	181	41
21	285	365	e260	e225	297	e250	501	171	138	87	213	23
22	246	634	e250	e220	255	e240	476	141	77	91	202	40
23	267	897	e245	275	241	e230	460	143	126	71	207	98
24	245	874	e240	715	223	221	387	139	151	82	172	52
25	213	982	e235	558	205	270	575	122	193	71	178	58
26	182	865	e230	524	353	256	672	130	190	66	183	65
27	228	702	190	439	406	888	708	131	183	40	176	76
28	189	632	90	374	378	937	686	116	186	62	148	82
29	248	583	308	359	374	818	573	78	160	45	100	21
30	156	559	290	319	---	701	458	99	146	27	93	51
31	232	---	407	200	---	651	---	92	---	148	67	---
TOTAL	9422	13796	12841	8972	6595	12721	13280	7741	5415	3074	4485	2143
MEAN	304	460	414	289	227	410	443	250	180	99.2	145	71.4
MAX	505	982	692	715	406	937	708	501	387	192	418	148
MIN	156	59	90	134	116	150	216	78	68	27	56	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1992, BY WATER YEAR (WY)

	MEAN	151	228	302	323	336	535	539	313	218	104	117	118
MAX	701	711	794	1028	845	1669	1239	658	1057	700	1971	1296	
(WY)	1956	1956	1984	1979	1970	1936	1940	1989	1982	1938	1955	1938	
MIN	16.3	34.4	81.4	57.4	83.0	235	169	131	45.9	17.8	12.9	12.2	
(WY)	1958	1950	1966	1981	1980	1989	1985	1957	1957	1957	1957	1957	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1932 - 1992

ANNUAL TOTAL	104454	100485	
ANNUAL MEAN	286	275	273
HIGHEST ANNUAL MEAN			466
LOWEST ANNUAL MEAN			124
HIGHEST DAILY MEAN	1040	Aug 22	26500
LOWEST DAILY MEAN	13	Aug 9	1.0
ANNUAL SEVEN-DAY MINIMUM	22	Jul 16	8.7
INSTANTANEOUS PEAK FLOW		1140	Nov 25
INSTANTANEOUS PEAK STAGE		4.45	Nov 25
INSTANTANEOUS LOW FLOW		8.3	Sep 28
10 PERCENT EXCEEDS	574	543	605
50 PERCENT EXCEEDS	248	238	185
90 PERCENT EXCEEDS	33	76	38

a From rating curve extended above 5,100 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

c Also occurred July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4, 1956, Oct. 29, 1956, and Jan. 27, 1985 (ice siphoning)

e Estimated

THAMES RIVER BASIN

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.

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
22...	1130	247	107	7.2	19.5	10.0	1.6	11.7	104	80	38
NOV											
08...	1230	28	114	7.6	7.0	3.5	1.3	13.7	103	480	49
DEC											
06...	1230	540	103	7.0	4.0	0.5	1.1	13.9	98	200	100
JAN											
08...	1250	312	114	7.1	3.5	2.0	1.6	13.7	99	K10	104
MAR											
09...	1330	326	113	7.0	10.0	5.0	1.4	13.7	108	100	23
APR											
13...	1330	370	108	7.1	7.5	7.0	1.1	13.2	108	40	K12
MAY											
22...	1145	142	123	7.6	33.0	20.5	0.90	9.8	109	100	K7
JUN											
11...	1145	239	104	7.3	19.0	20.0	2.7	9.0	99	220	K19
JUL											
13...	1020	74	137	7.7	28.5	22.5	2.2	8.8	104	270	80
AUG											
07...	1230	76	142	8.0	27.0	22.5	2.1	8.0	93	150	K15
SEP											
14...	1215	148	144	7.8	21.5	19.5	2.7	9.1	99	540	30

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
22...	21	5.5	1.8	11	1.5	0	12	10	6.7	19	0.10
NOV											
08...	23	6.2	1.8	11	2.0	0	15	12	9.9	19	0.20
DEC											
06...	30	9.6	1.5	7.0	1.1	0	9	7	8.9	17	<0.10
JAN											
08...	22	6.0	1.6	--	--	0	12	10	11	21	0.20
MAR											
09...	20	5.3	1.6	12	1.2	0	10	8	9.4	20	0.20
APR											
13...	19	5.1	1.5	11	1.3	0	11	9	9.2	19	<0.10
MAY											
22...	23	6.1	1.8	13	1.4	0	17	14	8.6	21	<0.10
JUN											
11...	20	5.3	1.6	12	1.1	0	14	11	7.5	18	0.20
JUL											
13...	26	7.2	2.0	16	1.6	0	15	12	7.6	25	<0.10
AUG											
07...	26	7.1	2.0	16	1.5	0	20	16	8.5	26	<0.10
SEP											
14...	27	7.5	2.0	15	1.8	0	21	17	8.2	25	0.10

THAMES RIVER BASIN

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01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 22...	6.9	66	71	--	<0.010	0.180	<0.010	--	0.30	0.48	0.050
NOV 08...	5.6	55	68	--	<0.010	0.330	0.040	0.26	0.30	0.63	0.060
DEC 06...	6.8	74	61	--	<0.010	0.240	0.020	--	<0.20	--	0.030
JAN 08...	8.8	59	67	0.300	0.020	0.320	0.090	0.21	0.30	0.62	0.050
MAR 09...	6.7	70	73	0.260	0.010	0.270	0.060	0.14	0.20	0.47	0.040
APR 13...	4.7	62	74	--	<0.010	0.230	0.020	--	<0.20	--	0.030
MAY 22...	3.4	72	77	--	<0.010	0.250	0.050	0.55	0.60	0.85	0.130
JUN 11...	4.8	65	65	--	<0.010	0.200	0.040	0.26	0.30	0.50	0.050
JUL 13...	3.4	80	82	0.920	0.020	0.940	0.030	0.37	0.40	1.3	0.070
AUG 07...	3.7	84	91	--	<0.010	0.290	0.030	0.27	0.30	0.59	0.140
SEP 14...	5.2	81	94	--	<0.010	0.290	0.010	0.39	0.40	0.69	0.070

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 22...	0.020	0.020	<1.0	<1	2	310	<1	26	2	14	6.5
NOV 08...	0.040	0.050	<1.0	<1	2	220	<1	20	<1	4	4.8
DEC 06...	0.020	0.020	<1.0	<1	2	110	<1	24	<1	6	4.1
JAN 08...	0.060	0.020	<1.0	1	2	280	<1	47	<1	16	4.2
MAR 09...	0.030	0.020	<1.0	<1	1	100	<1	30	<1	8	3.2
APR 13...	<0.010	0.020	<1.0	<1	1	89	<1	23	1	12	3.7
MAY 22...	0.090	0.080	<1.0	<1	1	280	<1	47	<1	6	4.7
JUN 11...	0.030	0.040	<1.0	4	2	460	<1	51	2	6	6.7
JUL 13...	0.040	0.060	<1.0	<1	2	530	1	34	<1	13	5.2
AUG 07...	0.050	0.060	<1.0	<1	2	510	1	28	<1	6	5.8
SEP 14...	0.030	0.030	<1.0	<1	2	440	<1	24	1	3	5.8

THAMES RIVER BASIN

01125100 FRENCH RIVER AT NORTH GROSVENORDALE, CT

LOCATION.--Lat 41°58'41", long 71°54'03", at Red bridge Road, .5 miles south of North Grosvenordale, .45 miles downstream of Backwater Brook, 1.2 miles upstream of Stoud Brook.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--October 1991 to September 1992.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED CENT SATUR- ATION (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
22...	1300	145	159	7.5	21.0	11.0	1.3	11.0	100	320	55
NOV											
08...	1350	110	201	7.6	7.5	4.0	1.7	12.3	94	24000	620
DEC											
06...	1415	350	136	7.0	6.0	1.0	0.80	12.4	89	630	K19
JAN											
08...	1445	210	141	7.4	3.0	2.5	1.3	13.3	98	K15	52
MAR											
09...	1445	210	147	7.1	10.5	5.0	1.6	12.5	99	480	K18
APR											
13...	1200	240	134	7.5	7.0	7.5	1.5	11.7	97	51	K13
MAY											
22...	1250	30	225	8.3	33.0	21.5	0.70	9.3	106	69	K18
JUN											
11...	1250	150	138	7.6	22.0	21.5	0.80	8.2	93	120	29
JUL											
13...	1330	145	173	8.0	30.0	23.5	0.90	8.4	101	200	725
AUG											
11...	1210	56	217	8.3	26.0	21.0	2.6	8.3	95	210	34
SEP											
14...	1410	48	203	8.2	24.0	21.5	1.3	9.5	108	140	K11

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
22...	23	7.1	1.3	21	2.5	0	23	19	22	25	0.10
NOV											
08...	33	11	1.4	27	3.5	0	37	20	26	24	0.20
DEC											
06...	20	6.5	1.0	16	2.0	0	16	13	13	20	<0.10
JAN											
08...	22	7.0	1.2	16	1.9	0	18	15	16	24	0.20
MAR											
09...	24	7.6	1.2	18	2.0	0	19	16	14	21	0.20
APR											
13...	20	6.3	1.1	15	2.0	0	18	15	13	22	0.20
MAY											
22...	25	7.8	1.4	36	2.6	0	59	48	23	24	<0.10
JUN											
11...	23	7.1	1.2	16	2.1	0	25	20	13	26	0.10
JUL											
13...	39	13	1.5	18	2.3	0	25	20	15	25	<0.10
AUG											
11...	26	8.0	1.4	34	2.8	0	67	55	13	25	<0.10
SEP											
14...	27	8.5	1.4	28	3.1	0	46	38	16	26	0.10

THAMES RIVER BASIN

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01125100 FRENCH RIVER AT NORTH GROSVENORDALE, CT

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 22...	5.3	95	99	--	<0.010	0.300	0.020	0.28	0.30	0.60	0.010
NOV 08...	5.3	111	137	0.830	0.040	0.870	0.270	0.53	0.80	1.7	0.090
DEC 06...	6.1	89	83	0.320	0.010	0.330	0.130	0.37	0.50	0.83	0.060
JAN 08...	6.5	78	82	--	<0.010	0.530	0.090	0.31	0.40	0.93	0.070
MAR 09...	5.2	85	84	0.710	0.010	0.720	0.080	0.32	0.40	1.1	0.040
APR 13...	3.3	78	74	0.350	0.010	0.360	0.110	0.29	0.40	0.76	0.110
MAY 22...	2.3	133	137	--	<0.010	1.20	0.030	0.67	0.70	1.9	0.130
JUN 11...	4.3	89	87	0.540	0.010	0.550	0.060	0.44	0.50	1.0	0.060
JUL 13...	2.3	103	95	--	<0.010	0.410	0.030	0.27	0.30	0.71	0.130
AUG 11...	2.2	125	140	--	<0.010	0.660	0.030	0.37	0.40	1.1	0.080
SEP 14...	3.1	114	127	0.990	0.010	1.00	0.010	0.49	0.50	1.5	0.050

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 22...	<0.010	<0.010	<1.0	<1	3	170	<1	16	2	7	5.3
NOV 08...	0.070	0.090	<1.0	<1	3	200	<1	22	1	9	7.7
DEC 06...	0.050	0.040	<1.0	<1	2	120	<1	15	1	11	5.7
JAN 08...	0.090	0.040	<1.0	1	2	180	<1	24	<1	15	4.8
MAR 09...	0.020	0.030	<1.0	<1	2	82	<1	22	<1	6	4.1
APR 13...	0.080	0.090	<1.0	<1	2	79	<1	21	1	14	4.3
MAY 22...	0.080	0.070	<1.0	<1	4	220	<1	18	<1	4	6.0
JUN 11...	0.060	0.050	<1.0	1	3	330	<1	47	2	7	7.3
JUL 13...	0.090	0.100	<1.0	<1	3	250	<1	10	2	12	5.2
AUG 11...	0.050	0.030	<1.0	<1	3	210	2	10	<1	11	7.1
SEP 14...	0.030	0.020	<1.0	<1	4	180	<1	9	2	10	6.1

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT

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. U. S. Army Corps of Engineers satellite telemetry for stage and discharge is on site. Flow regulated by East Brimfield, Westville, West Thompson, Hodges Village, and Buffumville Reservoirs, by Lake Chaubunagungamaug, estimated usable capacity 207,000,000 ft³ and by smaller reservoirs upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	737	1740	1230	1170	1410	2490	1630	1050	566	373	346
2	1070	775	1660	1130	1140	1100	2230	1480	1410	697	343	364
3	921	789	1830	1020	1160	1310	2010	1520	1250	335	342	355
4	795	555	2500	1310	1150	1110	1780	1740	1110	445	342	587
5	901	608	2650	1440	1070	1110	1530	1610	914	449	282	665
6	1060	820	2580	1600	921	1000	1750	1490	1690	480	277	583
7	1470	634	2130	1520	912	1100	1450	1370	2050	436	230	548
8	1440	589	1920	1330	919	1550	1310	1310	1920	418	281	642
9	1340	491	1890	1160	910	1510	1290	1440	1630	389	364	731
10	1230	534	2010	e1080	764	1500	1240	1460	1320	345	643	618
11	1060	907	2050	e1020	e740	1880	1270	1350	1030	314	487	724
12	1120	2550	1940	e980	e720	2890	1350	1180	890	349	866	637
13	1180	2690	1940	969	e710	2860	1490	1150	728	521	776	541
14	1020	2450	1770	1200	e700	2330	1400	1240	659	319	698	559
15	973	1990	2200	1910	e700	2000	1280	1150	609	662	669	370
16	1010	1800	2410	1560	1740	1650	1180	1060	516	1110	624	397
17	995	1550	1850	1250	2200	1450	1540	1010	448	1100	1450	399
18	1120	1410	1700	e1000	1960	1170	2250	933	316	942	2480	315
19	1190	1330	1530	e920	1570	e1150	2400	887	333	706	2740	380
20	1060	1290	1360	e860	1460	e1120	2280	757	311	637	2140	233
21	1010	1140	e1250	e820	1340	e1100	2310	706	366	477	1500	330
22	932	1600	e1180	e820	1270	e1080	1950	525	393	475	1120	272
23	882	2940	e1100	1120	1210	e1060	1920	498	368	447	896	383
24	872	3370	e1000	3620	1130	e1050	1830	485	442	374	741	367
25	801	3080	e960	3700	1070	e1040	1860	719	480	445	817	301
26	771	3350	e880	2590	1420	e1030	2270	571	657	416	737	393
27	529	3100	e840	2120	1880	2900	2340	603	711	317	562	548
28	914	2280	e820	1730	1730	4370	2310	567	859	303	593	571
29	678	1940	e800	1570	1630	3630	2030	488	750	237	578	511
30	675	1800	1330	1470	---	2930	1850	458	695	247	510	456
31	685	---	1400	1380	---	2630	---	464	---	276	416	---
TOTAL	30714	49099	51220	45429	35296	54020	54190	31851	25905	15234	24877	14126
MEAN	991	1637	1652	1465	1217	1743	1806	1027	863	491	802	471
MAX	1470	3370	2650	3700	2200	4370	2490	1740	2050	1110	2740	731
MIN	529	491	800	820	700	1000	1180	458	311	237	230	233

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1992, BY WATER YEAR (WY)

	MEAN	660	1076	1439	1563	1654	2516	2415	1537	1021	569	513	531
MAX	3279	3443	4125	5694	3919	6930	5519	2842	4758	4110	3918	3502	
(WY)	1956	1956	1973	1979	1970	1936	1987	1989	1982	1938	1955	1938	
MIN	132	189	281	219	473	1220	854	620	262	138	98.4	97.4	
(WY)	1931	1966	1931	1981	1980	1941	1966	1930	1957	1957	1957	1957	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1919 - 1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1919 - 1992
ANNUAL TOTAL	455631	431961	
ANNUAL MEAN	1248	1180	1289
HIGHEST ANNUAL MEAN			2015
LOWEST ANNUAL MEAN			598
HIGHEST DAILY MEAN	4360	Aug 20	35300
LOWEST DAILY MEAN	105	Aug 9	d18
ANNUAL SEVEN-DAY MINIMUM	113	Jul 16	58
INSTANTANEOUS PEAK FLOW		4630	Jan 24
INSTANTANEOUS PEAK STAGE		10.56	Jan 24
INSTANTANEOUS LOW FLOW		104	Jul 29
10 PERCENT EXCEEDS	2510		2760
50 PERCENT EXCEEDS	1130		920
90 PERCENT EXCEEDS	204		244

a 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.

b From floodmarks.

c Also occurred on Nov. 18, 1950.

d Also occurred on Dec. 11, 1949.

e Estimated

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 September 1990.

WATER TEMPERATURES: October 1955 to September 1956, October 1968 to September 1990.

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, July 27-28, 1990.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
29...	1130	679	104	7.2	11.0	13.0	1.6	10.0	93	84	58
NOV											
21...	1400	1670	97	7.0	9.0	5.0	1.6	13.0	102	230	40
DEC											
10...	1245	1480	88	6.6	8.5	5.0	1.5	12.9	101	20	26
JAN											
10...	1020	855	103	6.7	6.0	2.0	1.4	13.7	99	340	420
MAR											
16...	1415	1570	96	6.8	2.5	2.0	1.4	13.6	99	480	120
APR											
15...	1115	1100	107	7.7	13.0	9.0	1.8	12.3	105	34	K8
MAY											
14...	1330	1160	105	7.4	23.0	17.0	0.90	8.9	92	22	K6
JUN											
16...	1020	455	105	8.8	19.5	22.0	3.5	9.7	110	140	35
JUL											
09...	1350	353	118	7.9	27.0	21.5	1.7	10.2	118	160	136
AUG											
13...	1145	1120	127	8.9	24.5	20.5	6.7	7.3	80	150	K17
SEP											
15...	1050	278	105	7.7	27.0	20.5	2.0	8.9	98	110	K9

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT IT TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
29...	24	6.8	1.6	9.7	1.9	0	18	15	11	15
NOV										
21...	21	6.0	1.4	8.8	1.8	0	15	12	10	14
DEC										
10...	19	5.6	1.3	8.2	1.5	0	12	10	9.9	12
JAN										
10...	22	6.5	1.5	8.7	1.6	0	13	11	11	14
MAR										
16...	20	5.8	1.4	8.5	1.4	0	12	10	9.5	13
APR										
15...	22	6.3	1.4	9.9	1.7	0	16	13	10	14
MAY										
14...	23	6.8	1.5	10	1.6	0	18	15	9.8	13
JUN										
16...	25	7.5	1.6	9.8	1.8	0	19	17	12	20
JUL										
09...	27	8.0	1.7	12	1.9	0	26	21	9.1	15
AUG										
13...	27	7.9	1.8	13	2.0	2	27	25	9.4	15
SEP										
15...	24	6.9	1.6	9.0	1.7	0	21	17	8.1	12

THAMES RIVER BASIN

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 29...	0.10	6.5	64	79	0.420	0.020	0.440	0.050	0.65	0.70
NOV 21...	0.20	7.2	60	67	--	<0.010	0.430	0.030	0.27	0.30
DEC 10...	0.10	8.1	62	80	0.420	0.010	0.430	0.040	0.16	0.20
JAN 10...	0.20	8.0	63	75	--	<0.010	0.420	0.100	0.20	0.30
MAR 16...	0.20	5.7	57	57	--	<0.010	0.440	0.050	--	<0.20
APR 15...	0.20	4.0	74	65	0.460	0.010	0.470	0.050	0.35	0.40
MAY 14...	<0.10	3.5	68	65	--	<0.010	0.340	0.070	0.23	0.30
JUN 16...	0.20	4.2	64	69	0.190	0.020	0.210	0.050	0.65	0.70
JUL 09...	<0.10	3.9	73	83	0.530	0.010	0.540	0.070	0.53	0.60
AUG 13...	<0.10	3.4	71	112	0.170	0.010	0.180	0.030	0.67	0.70
SEP 15...	0.10	4.7	68	72	--	<0.010	0.330	0.050	0.35	0.40

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED TOTAL (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 29...	1.1	0.110	<0.010	0.030	<1	<1.0	1	<1	10	2
NOV 21...	0.73	0.050	0.020	0.020	<1	<1.0	3	<1	--	2
DEC 10...	0.63	0.030	0.020	0.020	<1	<1.0	<1	<1	--	1
JAN 10...	0.72	0.020	0.020	0.010	<1	<1.0	<1	1	2	<1
MAR 16...	--	<0.010	<0.010	0.010	<1	<1.0	2	<1	<1	1
APR 15...	0.87	0.060	0.010	0.020	<1	<1.0	<1	<1	2	1
MAY 14...	0.64	0.040	0.020	0.010	<1	<1.0	<1	<1	2	1
JUN 16...	0.91	0.080	<0.010	0.020	<1	<1.0	<1	<1	2	3
JUL 09...	1.1	0.070	0.020	0.030	<1	<1.0	<1	<1	4	2
AUG 13...	0.88	0.060	0.030	0.070	<1	<1.0	12	<1	3	1
SEP 15...	0.73	0.030	0.010	0.010	<1	<1.0	2	<1	1	1

01127000 QUINEBAUG RIVER AT JEWETT CITY, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT										
29...	460	220	11	<1	28	2	<1	<10	15	6.9
NOV										
21...	370	180	2	<1	23	2	<1	20	<3	5.5
DEC										
10...	310	160	<1	<1	20	<1	1	50	7	5.5
JAN										
10...	230	130	<1	<1	24	<1	<1	<10	8	3.3
MAR										
16...	240	85	<1	<1	19	<1	<1	20	9	4.4
APR										
15...	280	120	2	<1	29	<1	1	<10	17	3.9
MAY										
14...	430	180	1	<1	38	<1	<1	<10	<3	5.8
JUN										
16...	370	--	<1	2	94	<1	1	<10	8	7.6
JUL										
09...	570	300	3	<1	16	<1	<1	<10	9	5.4
AUG										
13...	510	170	2	<1	5	<1	<1	<10	6	7.2
SEP										
15...	440	250	1	<1	14	<1	<1	<10	<3	6.1

THAMES RIVER BASIN

01127500 YANTIC RIVER AT YANTIC, CT

LOCATION.--Lat 41°33'31", long 72°07'19", New London County, Hydrologic Unit 01100003, on left bank at Yantic, 700 ft. 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. Several measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Low flow regulated by mills upstream. City of Norwich automated flood warning system is on site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	71	124	153	e120	121	251	101	239	36	23	23
2	51	71	117	129	e110	e110	206	108	203	29	19	20
3	46	70	239	124	e100	e104	175	135	129	25	16	43
4	46	66	491	205	e94	e100	159	121	82	39	15	155
5	45	63	328	368	e88	e95	148	102	90	50	14	124
6	214	59	224	280	e84	e93	139	90	1340	48	12	74
7	230	57	191	202	e80	144	130	82	778	42	11	55
8	175	58	e180	165	e78	306	128	80	355	34	9.9	62
9	135	55	e170	149	e76	245	118	138	210	32	63	64
10	120	54	284	e135	e74	188	116	155	144	27	130	51
11	116	165	264	e130	e72	415	116	192	105	22	114	85
12	159	272	205	e120	e70	548	123	183	82	19	151	70
13	135	238	195	150	e68	298	109	179	68	21	107	53
14	114	170	247	268	e66	200	100	186	57	26	71	44
15	102	133	248	427	82	171	93	153	48	26	65	38
16	133	119	194	e250	363	146	93	106	42	117	123	34
17	133	99	147	e200	329	140	229	91	38	113	350	31
18	183	84	136	e170	212	137	335	75	34	73	558	29
19	176	78	116	e150	177	e130	339	66	31	49	353	31
20	148	76	109	e140	167	e128	247	58	33	35	184	30
21	131	75	116	e130	147	e126	195	51	34	27	110	26
22	123	207	124	e120	129	e124	179	45	31	22	77	27
23	114	605	124	207	123	e120	201	39	28	24	59	48
24	108	437	131	980	123	e119	171	34	49	31	48	44
25	106	292	e100	563	126	e118	171	36	102	27	41	37
26	101	207	e90	317	261	171	175	37	77	22	35	50
27	91	160	e85	217	294	848	151	36	58	21	33	105
28	82	141	e80	188	206	689	134	34	87	19	32	83
29	73	134	123	e165	166	357	119	31	62	17	35	60
30	68	127	289	e150	---	243	108	27	44	17	32	46
31	66	---	217	e130	---	266	---	31	---	19	27	---
TOTAL	3582	4443	5688	7082	4085	7000	4958	2802	4680	1109	2917.9	1642
MEAN	116	148	183	228	141	226	165	90.4	156	35.8	94.1	54.7
MAX	230	605	491	980	363	848	339	192	1340	117	558	155
MIN	45	54	80	120	66	93	93	27	28	17	9.9	20
CFSM	1.29	1.66	2.05	2.56	1.58	2.53	1.85	1.01	1.75	.40	1.05	.61
IN.	1.49	1.85	2.37	2.95	1.70	2.92	2.07	1.17	1.95	.46	1.22	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)

	MEAN	81.7	146	198	232	240	341	300	183	116	54.1	46.8	56.4
MAX	67.6	498	660	1130	531	782	886	409	892	553	245	718	
(WY)	1956	1956	1973	1979	1970	1936	1983	1989	1982	1938	1955	1938	
MIN	8.15	19.8	28.5	38.7	62.4	137	80.7	56.3	16.3	7.05	5.85	5.83	
(WY)	1942	1966	1944	1966	1980	1981	1985	1986	1964	1991	1957	1957	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1931 - 1992

ANNUAL TOTAL	52853.2	49988.9	166
ANNUAL MEAN	145	137	281
HIGHEST ANNUAL MEAN			71.7
LOWEST ANNUAL MEAN			1938
HIGHEST DAILY MEAN	995	Mar 4	1340
LOWEST DAILY MEAN	4.4	Jul 22	9.9
ANNUAL SEVEN-DAY MINIMUM	5.2	Jul 16	14
INSTANTANEOUS PEAK FLOW			1570
INSTANTANEOUS PEAK STAGE			6.57
INSTANTANEOUS LOW FLOW			0.3
ANNUAL RUNOFF (CFSM)	1.62	1.53	1.86
ANNUAL RUNOFF (INCHES)	22.02	20.82	25.21
10 PERCENT EXCEEDS	291	254	366
50 PERCENT EXCEEDS	123	113	95
90 PERCENT EXCEEDS	9.7	31	14

a From computation of flow over two dams 2.4 mi upstream and 3.0 mi downstream from station, respectively.

b A slightly higher gage height of 14.88 ft. occurred on June 6, 1982, due to reconstruction of river bank following flood of 1938.

c Also occurred on Aug. 9.

e Estimated.

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.

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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6960	7040	10200	12000	e6200	4750	18200	22300	10000	2980	3830	3200
2	6010	6890	9620	12400	e5600	4270	20500	19900	21500	2880	6050	4450
3	9110	6740	10400	9460	e5300	5630	16000	34000	21100	2940	5880	3790
4	9000	7230	11700	e8700	e5000	6600	13800	45900	14600	2670	4730	2250
5	8230	7140	10900	e8200	e4700	6180	13400	36200	10700	3280	7560	4800
6	6960	7870	10200	10600	e4400	6930	14300	28900	12200	4810	6520	4110
7	21100	6620	9580	10600	e4200	8100	14700	24000	18100	3900	4890	3590
8	36700	6350	9130	9830	e4000	8790	11800	18100	16000	5020	3740	4440
9	33300	8080	5540	10100	e3800	8750	11700	17900	12500	5140	5110	4160
10	24900	7790	8900	9850	e3600	10700	15600	15700	11100	7840	6190	4310
11	19000	7950	12100	9240	e3500	24700	15900	14700	10300	5570	6180	4320
12	19600	8620	13200	e7800	e3400	58800	15700	12800	6710	4530	7520	4440
13	19200	8430	11300	6430	e3300	54900	16700	12700	5990	6180	4070	2610
14	19100	8820	13900	8810	e3200	35500	18500	11100	5710	7150	4560	4190
15	18900	8940	20200	11400	e3100	22200	14600	10100	6890	4420	2450	3510
16	16800	8520	22400	12800	e4500	17900	12900	12300	3290	8900	2300	2430
17	17500	9010	e18000	e9500	7120	13200	13200	12900	3040	10200	3450	2590
18	16000	8200	e14000	e8500	6110	13200	14800	8870	3740	5790	4090	2910
19	15600	8860	e11000	e7600	9060	11500	15400	9260	3370	3500	6800	3890
20	16200	8440	e8500	e7000	7420	11300	14400	8790	3750	6550	3880	2450
21	12400	8690	e7600	e6600	8180	10200	24400	8570	3680	7510	4210	2320
22	11900	10800	e9400	e6400	8820	10700	40400	6790	4990	8610	3950	2890
23	11300	22800	e8700	e6200	6160	11500	49400	5910	4650	7680	3110	4880
24	9360	30300	e8100	11400	6220	11100	52300	5090	3840	5290	3530	4440
25	10100	23700	e7700	13800	5770	10400	57400	5090	5790	4510	3940	5140
26	10900	22900	e7400	e12000	8300	9960	62600	7340	4580	3570	4980	6800
27	10100	19900	e7200	e10000	7810	16400	57800	8170	4550	2750	4030	3710
28	6880	16800	e7100	e9000	8080	36200	49200	7560	4290	3450	3250	4290
29	10300	13200	e7000	e8000	5810	38200	36000	5930	4450	3360	3280	4040
30	8870	11800	8790	e7200	---	22800	28500	7620	4740	4070	2270	4340
31	8100	---	9910	e6700	---	17500	---	6170	---	2380	3670	---
TOTAL	450380	338430	329670	288120	162660	528860	760100	450660	246150	157430	140020	115290
MEAN	14530	11280	10630	9294	5609	17060	25340	14540	8205	5078	4517	3843
MAX	36700	30300	22400	13800	9060	58800	62600	45900	21500	10200	7560	6800
MIN	6010	6350	5540	6200	3100	4270	11700	5090	3040	2380	2270	2250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	10130	12060	10660	7875	9786	18730	30430	17190	11090	5698	6046	5042
MAX	16340	16810	20720	12880	21890	34660	50380	31900	31100	8595	14780	8601
(WY)	1991	1991	1991	1991	1984	1990	1987	1989	1984	1984	1990	1987
MIN	1512	3540	5787	4760	4250	9579	15650	7366	4088	2578	2718	1378
(WY)	1985	1985	1985	1989	1987	1989	1985	1987	1988	1991	1985	1984

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1984 - 1992

ANNUAL TOTAL	4334760	3967770	
ANNUAL MEAN	11880	10840	11540
HIGHEST ANNUAL MEAN			15310
LOWEST ANNUAL MEAN			6580
HIGHEST DAILY MEAN	54200	Apr 23	62600
LOWEST DAILY MEAN	1850	Jul 30	2250
ANNUAL SEVEN-DAY MINIMUM	2270	Aug 3	2780
INSTANTANEOUS PEAK FLOW			64300
INSTANTANEOUS PEAK STAGE			14.63
INSTANTANEOUS LOW FLOW			372
10 PERCENT EXCEEDS	23000		20300
50 PERCENT EXCEEDS	9600		8130
90 PERCENT EXCEEDS	2730		3560

e Estimated

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

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, Hydrologic Unit 01080205, on right bank just upstream from Enfield Dam, 1.0 mi downstream from Thompsonville, 3.0 mi downstream from Massachusetts-Connecticut State line, and at mile 63.6.
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 recorder. Datum of gage is 38.48 ft above National Geodetic Vertical Datum of 1929.

November 28, 1986, to August 2, 1990, recorder at site 200 ft. downstream at datum 0.28 ft. lower.

REMARKS.--Records good except for periods of estimated record, which are fair. U S Army Corps of Engineers satellite telemetry at this station used for backup stage this year. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13900	12400	20200	20100	e8600	7760	27900	32100	14300	8640	6290	5760
2	12000	10700	18100	21200	e8000	6650	29800	28800	26100	7330	7760	6640
3	14400	10700	19800	19300	e7500	7500	26900	40900	30900	6540	8010	7240
4	15000	10000	22000	18600	e7000	9300	22500	57200	22200	5410	7330	5360
5	15500	11600	e20500	18400	e6600	8570	21900	48400	17500	5630	10300	6970
6	12700	11200	19700	19800	e6300	9170	20800	40100	21000	6950	9550	6910
7	25900	11000	17500	20800	e5900	10800	22000	33600	27100	7050	8360	6180
8	44300	9740	17000	19900	e5500	12900	19800	28700	27100	8340	5970	6280
9	43300	11500	14100	19700	e5200	16400	19100	27300	25100	7370	7640	6860
10	33900	11200	16600	19300	e4900	17400	22300	23200	19200	10600	10100	7860
11	27900	11800	21900	18400	e4800	28600	24200	21900	16700	9470	10300	8250
12	28900	16300	23800	e15000	e4700	65200	26000	20700	13900	7630	12600	9040
13	29200	17000	21700	10500	e4600	66900	25900	20200	10000	7560	7210	5840
14	28200	17900	23600	15800	e4500	49000	28600	17800	8180	9750	7140	5890
15	27300	17500	30400	19500	e4400	33100	24100	15600	10500	8140	6200	6570
16	26300	15600	32300	22200	8340	26900	21200	17500	8390	12500	4840	e4960
17	26100	15900	33100	e18000	9060	22100	22300	17500	7410	17100	5860	5580
18	25400	12800	26900	e15000	8480	20900	25700	15800	7400	10700	8640	4900
19	23400	14200	e23500	e11000	11300	19800	26700	15900	7200	6940	12200	6360
20	24400	15300	e20500	e10500	10600	19200	25800	14600	7250	7870	9250	5320
21	21200	13700	e17000	e9800	10200	17000	32200	15000	7200	10900	7620	4620
22	20600	19200	19900	e9400	11700	15300	48800	12700	7180	11700	7250	4650
23	20200	33800	18300	e9000	9390	16800	57700	11800	8250	10900	5990	7680
24	16400	42500	16400	17100	8120	17300	60300	8740	7420	8150	5900	9110
25	14800	36600	17400	22300	8040	15200	66400	8070	11500	7790	6710	10100
26	15300	34400	e16000	20900	10500	15400	72700	8900	9730	6280	7410	12500
27	14600	31300	e15000	16100	10900	24900	68800	11300	8640	5210	6400	7500
28	11300	27600	12700	e13500	11500	44700	60100	10100	8090	5060	6220	7070
29	13600	23500	13800	e11000	9320	50600	47000	8360	6460	5030	6130	9990
30	14300	22000	14600	e10000	---	35200	39100	10200	7950	6480	5150	7800
31	13500	---	17300	e9200	---	28600	---	8590	---	5060	5530	---
TOTAL	673800	548940	621600	501300	225950	739150	1036600	651560	409850	254080	235860	209790
MEAN	21740	18300	20050	16170	7791	23840	34550	21020	13660	8196	7608	6993
MAX	44300	42500	33100	22300	11700	66900	72700	57200	30900	17100	12600	12500
MIN	11300	9740	12700	9000	4400	6650	19100	8070	6460	5030	4840	4620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1992, BY WATER YEAR (WY)

	MEAN	10050	14650	15270	13620	13560	25150	44800	27410	13740	7642	6956	7169
MAX	31730	31690	38350	30180	39100	89210	76050	51520	42600	28810	22530	42700	
(WY)	1978	1956	1984	1978	1981	1936	1960	1972	1984	1973	1955	1938	
MIN	2690	5015	5548	4311	4386	6965	20070	9611	4900	3202	2911	2719	
(WY)	1964	1965	1948	1931	1940	1940	1946	1941	1964	1962	1965	1964	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1928 - 1992

ANNUAL TOTAL	6357620	6108480	
ANNUAL MEAN	17420	16690	16640
HIGHEST ANNUAL MEAN			24830
LOWEST ANNUAL MEAN			7847
HIGHEST DAILY MEAN	64300	Apr 23	72700
LOWEST DAILY MEAN	3360	Aug 7	4400
ANNUAL SEVEN-DAY MINIMUM	3700	Aug 3	4730
INSTANTANEOUS PEAK FLOW			74300
INSTANTANEOUS PEAK STAGE			4.44
INSTANTANEOUS LOW FLOW			e4400
10 PERCENT EXCEEDS	32000		29400
50 PERCENT EXCEEDS	15500		13500
90 PERCENT EXCEEDS	4590		6260

a From flood marks

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, 443 microsiemens Feb. 15, 1992; 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, 443 microsiemens Feb. 15; minimum, 72 microsiemens Nov. 26.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	
OCT 21...	0930	21500	89	7.3	10.0	10.5	2.1	10.4	92	52	39	
NOV 07...	1340	9440	108	7.4	9.5	6.0	1.5	12.1	96	700	160	
DEC 09...	1345	13200	103	6.6	11.0	2.5	1.4	13.3	99	150	240	
JAN 07...	1130	19600	104	7.6	7.0	2.0	1.4	13.6	99	27	132	
MAR 24...	1030	18300	109	7.2	2.0	1.0	2.1	14.0	97	100	40	
APR 20...	1415	25600	97	7.4	12.0	5.0	1.9	13.8	107	86	21	
MAY 27...	0930	11900	119	7.6	17.5	15.5	1.3	8.9	89	260	K16	
JUN 19...	1330	7200	122	7.4	21.0	21.0	0.80	8.3	93	420	K11	
JUL 06...	1100	7200	132	7.5	25.0	19.5	0.90	7.8	85	230	K16	
AUG 21...	1000	7200	122	7.5	22.0	20.0	1.4	7.9	86	480	20	
SEP 24...	0910	9000	154	7.8	11.0	17.5	1.9	8.0	83	540	22	
DATE		STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT 21...	--	--	29	9.4	1.4	5.5	1.2	0	25	20	3.7	
NOV 07...	150	520	34	11	1.6	7.8	1.5	0	33	27	9.7	
DEC 09...	--	--	31	9.8	1.5	7.1	0.80	0	25	20	9.0	
JAN 07...	270	88	31	10	1.4	6.5	1.0	0	28	23	9.7	
MAR 24...	--	--	33	11	1.4	7.1	1.1	0	29	24	8.5	
APR 20...	--	--	29	9.3	1.3	6.2	1.1	0	26	21	7.1	
MAY 27...	22	220	39	13	1.6	7.4	1.3	0	38	31	9.1	
JUN 19...	--	--	37	12	1.7	9.0	1.4	0	33	27	13	
JUL 06...	24	240	40	13	1.9	9.2	1.5	0	36	30	9.4	
AUG 21...	--	--	35	11	1.9	8.5	1.6	0	33	27	9.2	
SEP 24...	--	--	46	15	2.0	9.7	1.7	0	47	39	9.9	

CONNECTICUT RIVER BASIN

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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT 21...	6.5	<0.10	6.9	55	67	--	<0.010	0.180	--	0.050	--
NOV 07...	11	0.20	5.6	73	80	--	<0.010	0.310	0.310	0.100	0.130
DEC 09...	9.9	<0.10	8.3	60	70	--	<0.010	0.330	--	0.080	--
JAN 07...	11	0.10	6.4	61	60	--	<0.010	0.340	0.340	0.080	0.090
MAR 24...	12	0.20	5.3	59	68	--	<0.010	0.430	--	0.110	--
APR 20...	10	<0.10	5.1	79	61	--	<0.010	0.320	--	0.070	--
MAY 27...	12	<0.10	3.8	72	81	--	<0.010	0.320	0.310	0.140	0.160
JUN 19...	16	0.10	4.7	78	73	0.350	0.010	0.360	--	0.210	--
JUL 06...	14	<0.10	4.5	77	75	0.390	0.030	0.420	0.420	0.140	0.140
AUG 21...	13	<0.10	5.5	93	85	--	<0.010	0.100	--	0.010	--
SEP 24...	15	0.10	3.1	108	112	0.270	0.010	0.280	--	0.180	--

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHODIS- SOLVED (MG/L AS P) (70507)	PHOS- PHORUS ORTHODIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT 21...	--	<0.20	--	0.030	0.020	<0.010	--	--	--	<1	1.0
NOV 07...	0.20	0.30	0.61	0.050	0.050	0.040	0.040	20	13	<1	<1.0
DEC 09...	0.12	0.20	0.53	0.020	0.020	0.010	--	--	--	<1	<1.0
JAN 07...	0.22	0.30	0.64	0.030	0.010	0.010	0.020	30	9	<1	<1.0
MAR 24...	0.09	0.20	0.63	0.020	<0.010	0.010	--	--	--	<1	<1.0
APR 20...	--	<0.20	--	<0.010	<0.010	0.010	--	--	--	<1	<1.0
MAY 27...	0.26	0.40	0.72	0.040	0.030	0.020	0.020	<10	13	<1	<1.0
JUN 19...	0.19	0.40	0.76	0.040	0.020	0.030	--	--	--	<1	<1.0
JUL 06...	0.06	0.20	0.62	0.020	0.030	0.010	0.010	<10	15	<1	<1.0
AUG 21...	--	<0.20	--	<0.010	<0.010	0.010	--	--	--	<1	<1.0
SEP 24...	0.32	0.50	0.78	0.040	0.020	0.030	--	--	--	<1	<1.0

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 21...	<1	<1	--	8	2	380	120	2	<1	--	18
NOV 07...	<1	<1	<3	--	2	280	140	2	<1	<4	23
DEC 09...	<1	<1	--	--	3	160	110	<1	<1	--	29
JAN 07...	<1	<1	<3	7	4	280	80	10	2	<4	15
MAR 24...	1	<1	--	2	1	310	60	<1	<1	--	17
APR 20...	<1	<1	--	2	1	290	62	<1	<1	--	15
MAY 27...	<1	<1	<3	6	4	280	81	14	3	<4	23
JUN 19...	<1	2	--	2	2	250	95	<1	<1	--	28
JUL 06...	<1	<1	<3	6	4	220	78	10	2	<4	22
AUG 21...	<1	<1	--	3	2	290	130	1	<1	--	26
SEP 24...	<1	<1	--	3	2	420	35	1	<1	--	14

DATE	MOLYBDENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 21...	--	2	3	--	--	--	--	<10	7	5.5
NOV 07...	<10	2	<1	<1	<1.0	56	<6	20	<10	4.9
DEC 09...	--	<1	<1	--	--	--	--	20	4	3.7
JAN 07...	<10	2	<1	<1	<1.0	48	<6	20	20	3.5
MAR 24...	--	40	<1	--	--	--	--	<10	9	3.5
APR 20...	--	<1	<1	--	--	--	--	<10	11	3.0
MAY 27...	<10	<1	<1	<1	<1.0	64	<6	20	20	3.3
JUN 19...	--	2	<1	--	--	--	--	<10	9	3.4
JUL 06...	<10	2	<1	<1	<1.0	65	<6	<10	<10	3.3
AUG 21...	--	1	<1	--	--	--	--	40	22	6.1
SEP 24...	--	<1	1	--	--	--	--	<10	3	3.3

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS BETA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
OCT 21...	0930	<0.6	<0.6	1.4	0.6	1.2	<0.6	<0.02	0.09
APR 20...	1415	<0.6	<0.6	1.1	<0.6	1.0	<0.6	0.04	0.07

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDIMENT, DIS- SOLVED (MG/L) (80154)	SEDIMENT, DIS- SOLVED (MG/L) (80155)	SEDIMENT, DIS- SOLVED (MG/L) (80155)	SEDIMENT, DIS- SOLVED (MG/L) (80155)
NOV 07...	1340	9440		3	76		84
JAN 07...	1130	19600		4	212		92
MAY 27...	0930	11900		5	161		97
JUL 06...	1100	7200		3	58		94

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	110	106	106	117	113	115	90	86	88	105	99	102
2	110	106	108	119	115	118	92	88	90	107	99	102
3	112	108	110	123	119	121	106	92	96	111	101	103
4	114	110	112	127	121	125	116	106	114	111	105	107
5	117	114	116	121	117	119	110	96	101	115	107	110
6	123	115	119	119	117	119	100	96	97	111	99	106
7	123	103	114	121	119	120	112	100	108	105	94	99
8	103	97	99	123	119	121	110	106	107	102	92	95
9	100	97	98	123	121	122	108	106	106	114	94	101
10	100	96	98	121	119	120	108	102	107	118	98	107
11	98	94	97	121	119	120	102	98	100	114	104	107
12	100	94	98	123	119	121	98	96	98	106	104	105
13	94	88	90	121	115	117	100	96	99	114	106	108
14	90	88	89	115	111	113	104	98	100	116	110	113
15	93	89	91	115	115	115	98	90	94	122	102	112
16	95	91	94	115	113	115	92	86	89	116	96	104
17	97	95	95	115	113	114	89	86	87	102	86	98
18	97	95	96	113	113	113	91	87	89	100	84	98
19	96	96	96	115	113	113	93	91	92	106	88	99
20	96	94	95	115	113	114	95	91	94	106	104	105
21	99	96	97	117	115	116	105	93	98	106	104	104
22	101	99	100	121	117	119	109	99	106	110	104	107
23	103	101	102	119	89	102	99	99	99	122	110	113
24	107	101	105	89	85	85	103	99	101	148	122	141
25	113	107	110	87	77	83	105	97	99	124	108	113
26	117	113	115	77	72	74	101	99	99	114	88	103
27	117	111	113	80	74	78	101	97	100	122	100	112
28	119	115	117	84	80	83	109	101	105	122	114	116
29	117	113	115	86	84	85	109	103	106	122	114	116
30	113	111	112	86	86	86	123	109	114	120	110	114
31	115	111	113	---	---	---	127	103	113	118	114	116
MONTH	123	88	104	127	72	109	127	86	100	148	84	108
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	128	118	121	-	-	-	-	-	-	-	-	-
2	134	122	126	-	-	-	-	-	-	-	-	-
3	128	84	120	-	-	-	-	-	-	-	-	-
4	124	118	120	-	-	-	-	-	-	-	-	-
5	122	118	119	-	-	-	-	-	-	-	-	-
6	124	118	120	-	-	-	-	-	-	-	-	-
7	126	118	121	-	-	-	-	-	-	-	-	-
8	126	122	124	-	-	-	-	-	-	-	-	-
9	134	126	130	-	-	-	-	-	-	-	-	-
10	134	130	132	-	-	-	-	-	-	-	-	-
11	136	106	123	-	-	-	-	-	-	-	-	-
12	110	106	108	-	-	-	-	-	-	-	-	-
13	345	108	144	-	-	-	-	-	-	102	96	100
14	343	329	336	-	-	-	-	-	-	106	102	103
15	443	335	397	-	-	-	-	-	-	112	106	108
16	431	125	373	-	-	-	-	-	-	112	106	108
17	131	115	124	-	-	-	-	-	-	110	106	108
18	134	119	122	-	-	-	-	-	-	112	108	109
19	150	116	126	-	-	-	-	-	-	114	106	108
20	126	114	118	-	-	-	-	-	-	118	106	113
21	134	114	122	-	-	-	-	-	-	118	114	116
22	128	109	115	-	-	-	-	-	-	120	116	118
23	-	-	-	-	-	-	-	-	-	126	120	123
24	-	-	-	-	-	-	-	-	-	130	126	127
25	-	-	-	-	-	-	-	-	-	132	124	128
26	-	-	-	-	-	-	-	-	-	132	122	126
27	-	-	-	-	-	-	-	-	-	134	126	129
28	-	-	-	-	-	-	-	-	-	130	124	127
29	-	-	-	-	-	-	-	-	-	128	122	125
30	---	---	---	-	-	-	-	-	-	132	122	126
31	---	---	---	-	-	-	---	---	---	126	118	124
MONTH	443	84	156	-	-	-	-	-	-	134	96	117

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	128	110	121	-	-	-	117	105	112	118	117	118
2	118	104	113	-	-	-	114	106	109	122	118	120
3	106	100	103	-	-	-	109	105	107	122	116	120
4	100	98	100	-	-	-	111	103	107	124	118	123
5	110	100	103	-	-	-	114	104	109	124	122	123
6	110	86	97	-	-	-	108	103	105	128	122	125
7	92	80	88	-	-	-	106	101	105	128	126	126
8	-	-	-	-	-	-	110	104	106	130	126	129
9	-	-	-	-	-	-	111	91	107	132	128	131
10	-	-	-	-	-	-	109	94	102	138	128	134
11	-	-	-	-	-	-	96	88	93	132	130	131
12	-	-	-	-	-	-	99	86	92	130	125	127
13	-	-	-	-	-	-	106	97	102	127	123	126
14	-	-	-	-	-	-	112	104	109	129	123	127
15	-	-	-	-	-	-	114	112	114	129	127	129
16	-	-	-	-	-	-	114	102	113	133	129	132
17	-	-	-	-	-	-	120	114	117	141	131	136
18	-	-	-	-	-	-	116	84	111	-	-	-
19	-	-	-	-	-	-	104	96	99	144	138	140
20	-	-	-	-	-	-	99	96	97	144	140	143
21	-	-	-	-	-	-	101	97	99	142	138	140
22	-	-	-	92	87	90	105	99	103	146	114	143
23	-	-	-	93	85	90	109	105	107	162	114	149
24	-	-	-	88	82	86	111	105	109	156	140	146
25	-	-	-	95	84	89	115	111	113	140	134	137
26	-	-	-	95	91	93	117	113	115	140	130	134
27	-	-	-	102	94	100	115	111	113	132	124	128
28	-	-	-	107	100	104	115	111	114	128	124	126
29	-	-	-	112	101	108	117	113	115	136	128	132
30	-	-	-	112	106	109	121	115	118	132	128	129
31	---	---	---	108	89	104	117	115	117	---	---	---
MONTH	128	80	104	112	82	97	121	84	108	162	114	131
YEAR	443	72	114									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

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

CONNECTICUT RIVER BASIN

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. Several measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.4	12	18	e7.8	17	29	15	66	4.9	50	2.6
2	5.1	5.7	11	9.2	e6.8	11	26	18	30	4.3	13	2.6
3	4.6	5.5	27	11	e6.1	11	21	69	13	4.3	6.7	3.1
4	4.3	5.1	79	24	e5.7	11	18	34	7.2	9.9	4.9	6.0
5	3.9	4.7	67	42	e5.3	11	16	21	13	11	4.7	4.4
6	16	4.8	40	25	e4.5	12	15	17	315	14	4.4	3.7
7	22	4.8	21	18	e4.5	25	13	15	138	10	3.7	3.2
8	11	4.4	25	15	e4.7	42	12	14	183	6.3	3.2	3.2
9	7.2	4.1	32	11	e4.4	26	11	18	304	6.0	27	3.1
10	5.7	4.3	28	e10	e4.3	23	11	16	70	5.1	46	3.1
11	8.4	25	21	e9.2	e4.2	116	14	14	32	3.7	14	4.1
12	34	57	18	e8.3	e4.1	85	51	11	21	3.0	8.5	3.7
13	18	29	22	8.6	e4.1	34	32	11	16	2.8	6.4	3.3
14	11	16	31	33	e4.3	22	19	10	13	2.9	6.2	2.9
15	9.1	12	34	52	5.0	18	15	8.5	11	8.2	6.8	3.0
16	34	11	21	e45	65	14	15	10	9.0	36	6.7	2.5
17	25	8.4	12	e40	34	13	74	10	7.7	16	21	2.4
18	29	7.0	e10	e35	16	e13	85	8.4	6.8	8.1	92	2.4
19	18	6.8	10	e30	e14	e13	52	7.6	6.5	5.6	53	3.2
20	12	6.4	9.6	e25	e12	e13	33	6.4	7.4	6.2	20	3.5
21	8.9	7.5	11	e23	12	e13	26	6.1	10	5.2	11	2.7
22	7.6	54	14	e22	10	e13	24	5.5	7.0	4.2	8.0	2.7
23	7.1	142	e11	40	11	e13	23	4.5	5.9	3.9	6.6	11
24	6.5	69	e9.8	96	12	15	20	3.9	14	6.6	5.4	6.3
25	7.2	37	e8.8	54	10	17	53	4.2	29	4.3	4.9	3.9
26	6.8	22	e7.8	e35	70	24	49	4.0	15	3.3	4.3	4.2
27	6.0	17	e7.6	e25	60	127	31	4.0	11	3.7	4.0	6.8
28	5.4	15	e7.4	e20	26	77	23	3.9	13	3.6	4.2	5.7
29	5.5	15	14	e15	20	35	19	3.5	8.2	3.4	4.5	4.7
30	5.0	13	37	e11	---	24	16	3.1	6.2	3.4	3.2	3.7
31	5.1	---	24	8.5	---	34	---	5.5	---	18	2.7	---
TOTAL	355.0	618.9	683.0	818.8	447.8	922	846	382.1	1388.9	227.9	457.0	117.7
MEAN	11.5	20.6	22.0	26.4	15.4	29.7	28.2	12.3	46.3	7.35	14.7	3.92
MAX	34	142	79	96	70	127	85	69	315	36	92	11
MIN	3.9	4.1	7.4	8.3	4.1	11	11	3.1	5.9	2.8	2.7	2.4
CFSM	1.10	1.98	2.12	2.54	1.48	2.86	2.71	1.19	4.45	.71	1.42	.38
IN.	1.27	2.21	2.44	2.93	1.60	3.30	3.03	1.37	4.97	.82	1.63	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	13.0	19.5	20.2	19.9	26.5	36.2	36.7	26.7	25.5	5.14	7.00	5.57
MAX	44.2	31.0	42.8	41.3	59.6	80.4	92.6	73.9	97.5	10.3	17.3	14.1
(WY)	1990	1989	1984	1986	1984	1983	1983	1989	1982	1988	1990	1987
MIN	2.61	5.98	6.04	3.93	9.01	12.8	8.13	5.79	1.61	1.50	.48	.48
(WY)	1985	1985	1990	1985	1985	1985	1985	1986	1981	1991	1981	1983

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1981 - 1992

ANNUAL TOTAL	6365.08	7265.1	
ANNUAL MEAN	17.4	19.8	
HIGHEST ANNUAL MEAN			20.4
LOWEST ANNUAL MEAN			29.9
			7.42
HIGHEST DAILY MEAN	178	May 7	315
LOWEST DAILY MEAN	.12	Jul 21	2.4
ANNUAL SEVEN-DAY MINIMUM	.50	Jul 16	2.8
INSTANTANEOUS PEAK FLOW			787
INSTANTANEOUS PEAK STAGE			4.40
INSTANTANEOUS LOW FLOW			1.9
ANNUAL RUNOFF (CFSM)	1.68	1.91	1.96
ANNUAL RUNOFF (INCHES)	22.77	25.99	26.60
10 PERCENT EXCEEDS	39	41	46
50 PERCENT EXCEEDS	10	11	9.1
90 PERCENT EXCEEDS	1.4	3.9	1.2

a Also occurred Sept. 16, 17, 18, and 22.

e Estimated.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Flow regulated by reservoir and mill upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	19	20	18	21	33	28	26	19	33	12
2	14	13	18	19	17	e20	31	31	20	17	17	12
3	13	13	35	21	16	e20	29	48	17	17	15	15
4	13	12	58	28	e15	e19	28	33	16	21	15	18
5	13	12	31	29	e15	e19	26	30	18	20	15	14
6	25	12	26	24	e15	e19	26	28	80	23	14	13
7	20	12	24	22	e14	27	25	27	33	19	13	16
8	15	12	26	21	e14	35	24	27	35	17	13	16
9	14	11	27	20	e14	27	24	30	53	19	20	13
10	14	12	29	e19	e14	26	24	29	27	16	17	13
11	16	24	25	e18	e14	86	26	26	23	15	15	14
12	23	29	23	18	e14	45	47	24	20	14	16	13
13	16	21	25	19	e14	33	31	24	19	15	14	12
14	15	17	32	28	16	29	27	25	18	15	15	12
15	14	16	31	27	18	27	26	23	17	26	14	12
16	14	16	25	19	69	25	28	25	16	42	16	12
17	14	15	22	18	27	e24	57	23	16	22	25	11
18	18	14	e21	e17	22	e24	54	21	15	18	75	11
19	15	14	20	17	22	e23	42	20	16	17	32	11
20	14	14	19	e16	22	e23	35	19	26	16	23	11
21	14	16	e19	16	20	e23	33	18	28	15	19	11
22	14	44	e18	16	19	e23	32	17	19	14	17	12
23	14	85	e18	37	19	e23	31	17	17	15	16	18
24	13	35	21	83	20	e23	30	17	35	16	16	13
25	13	28	19	26	20	e23	61	18	59	14	15	12
26	13	24	18	21	60	e26	48	17	28	14	15	14
27	13	21	18	19	36	88	37	17	32	14	14	14
28	13	21	18	e18	27	46	33	18	31	14	14	13
29	13	20	24	e18	26	36	31	17	22	14	14	12
30	13	19	36	e17	---	32	29	16	20	16	13	11
31	13	---	24	19	---	36	---	19	---	31	13	---
TOTAL	460	615	769	710	637	951	1008	732	802	565	583	391
MEAN	14.8	20.5	24.8	22.9	22.0	30.7	33.6	23.6	26.7	18.2	18.8	13.0
MAX	25	85	58	83	69	88	61	48	80	42	75	18
MIN	13	11	18	16	14	19	24	16	15	14	13	11
CFSM	.96	1.32	1.60	1.48	1.42	1.98	2.17	1.52	1.72	1.18	1.21	.84
IN.	1.10	1.48	1.85	1.70	1.53	2.28	2.42	1.76	1.92	1.36	1.40	.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	MEAN	16.0	20.1	23.6	25.6	29.9	38.4	35.6	29.4	24.7	16.4	15.1	15.0
MAX	44.3	45.8	50.7	68.5	66.4	86.2	87.5	64.1	65.4	31.3	33.1	53.8	
(WY)	1990	1976	1973	1976	1970	1972	1983	1984	1982	1967	1989	1975	
MIN	7.44	8.37	8.71	7.98	13.8	18.0	12.9	12.7	9.78	5.24	5.00	6.77	
(WY)	1966	1966	1966	1966	1969	1985	1966	1965	1965	1965	1965	1963	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1961 - 1992

ANNUAL TOTAL	8671.2	8223		
ANNUAL MEAN	23.8	22.5	24.0	
HIGHEST ANNUAL MEAN			34.9	1976
LOWEST ANNUAL MEAN			11.6	1966
HIGHEST DAILY MEAN	122	Mar 4	88	Mar 27
LOWEST DAILY MEAN	7.9	Aug 18	11	Nov 9
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 19	11	Sep 15
INSTANTANEOUS PEAK FLOW			153	Jan 24
INSTANTANEOUS PEAK STAGE			2.02	Jan 24
INSTANTANEOUS LOW FLOW			11	Nov 3
ANNUAL RUNOFF (CFSM)	1.53	1.45	1.55	
ANNUAL RUNOFF (INCHES)	20.81	19.74	21.03	
10 PERCENT EXCEEDS	40	33	41	
50 PERCENT EXCEEDS	21	19	18	
90 PERCENT EXCEEDS	11	13	9.5	

e Estimated

CONNECTICUT RIVER BASIN

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Flow regulated by Otis and West Branch Reservoirs and Colebrook River Lake.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	200	286	208	177	205	142	159	280	145	341	285
2	158	200	205	207	177	156	141	175	193	143	334	286
3	155	200	158	207	177	111	138	221	178	180	285	289
4	154	239	186	216	177	109	134	177	154	209	258	291
5	154	271	166	230	177	114	132	165	141	211	255	288
6	179	273	160	227	167	117	149	161	454	221	254	288
7	201	273	158	313	206	125	161	158	185	185	256	290
8	201	273	156	382	224	136	160	157	329	159	256	260
9	194	273	162	382	224	126	158	157	259	162	271	60
10	192	273	170	382	207	120	158	156	169	191	245	76
11	203	262	166	380	191	232	159	156	151	210	232	213
12	232	248	160	393	189	156	202	154	145	210	302	214
13	207	237	166	400	189	125	177	154	142	188	328	202
14	215	232	179	400	189	116	166	154	139	235	291	210
15	226	229	178	369	189	111	161	152	279	294	305	210
16	245	227	165	346	206	132	159	153	371	269	330	213
17	236	225	159	345	180	151	193	154	310	199	377	210
18	242	252	157	344	159	150	207	198	275	254	469	213
19	234	265	154	340	157	150	208	224	274	281	336	213
20	227	278	154	340	158	150	187	273	276	297	355	213
21	222	280	154	340	157	150	177	354	286	301	356	241
22	221	332	154	342	156	149	172	353	224	272	386	261
23	218	377	154	262	156	150	169	351	189	256	386	264
24	221	321	154	233	183	150	166	326	205	276	387	259
25	224	303	154	205	202	149	190	349	261	270	389	259
26	229	300	149	197	223	153	188	348	185	293	354	260
27	227	296	150	172	217	370	172	350	160	320	337	261
28	226	293	150	174	211	221	165	350	152	298	343	208
29	225	292	153	174	207	180	162	346	148	258	355	174
30	224	286	199	174	---	151	159	348	146	305	392	173
31	216	---	215	175	---	144	---	359	---	334	325	---
TOTAL	6466	8010	5231	8859	5432	4759	5012	7292	6660	7426	10090	6884
MEAN	209	267	169	286	187	154	167	235	222	240	325	229
MAX	245	377	286	400	224	370	208	359	454	334	469	291
MIN	154	200	149	172	156	109	132	152	139	143	232	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1992, BY WATER YEAR (WY)

	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
MEAN	191	244	246	212	209	261	459	301	276	210	227	168
MAX	1080	794	486	597	729	668	1134	673	903	720	509	490
(WY)	1956	1956	1960	1978	1976	1968	1958	1983	1984	1972	1969	1973
MIN	34.2	52.1	89.0	41.7	57.4	106	122	94.3	35.6	15.8	12.3	25.0
(WY)	1969	1965	1965	1981	1977	1989	1985	1985	1957	1957	1957	1967

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1956 - 1992
ANNUAL TOTAL	85169	82121	
ANNUAL MEAN	233	224	250
HIGHEST ANNUAL MEAN			384
LOWEST ANNUAL MEAN			102
HIGHEST DAILY MEAN	505	May 11	7310
LOWEST DAILY MEAN	70	Sep 4	2.7
ANNUAL SEVEN-DAY MINIMUM	110	Sep 18	3.8
INSTANTANEOUS PEAK FLOW		798	10600
INSTANTANEOUS PEAK STAGE		5.37	12.47
INSTANTANEOUS LOW FLOW		58	90
10 PERCENT EXCEEDS	346	343	474
50 PERCENT EXCEEDS	225	208	192
90 PERCENT EXCEEDS	150	150	60

75

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.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Flow regulated by power plant, Mad River and Sucker Brook Detention Reservoirs, and Highland Lake.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	89	139	131	e85	103	245	167	418	76	150	64
2	72	120	119	e120	e83	e90	241	197	265	62	100	56
3	64	118	154	e115	e80	e80	211	568	152	56	72	65
4	58	114	299	156	e78	e74	182	335	119	112	63	80
5	54	110	218	199	e76	100	168	246	153	126	73	69
6	229	107	173	168	e74	131	156	201	1640	150	57	63
7	246	120	150	142	e72	187	149	173	741	133	43	56
8	153	116	e140	118	e70	286	141	163	742	96	36	55
9	116	110	194	108	e68	236	141	159	742	103	181	51
10	102	109	241	112	e67	205	138	142	317	87	234	53
11	132	202	204	94	e66	834	154	139	198	69	187	101
12	305	265	169	e91	e65	517	332	128	152	58	301	80
13	198	209	196	e88	e64	273	266	122	130	96	157	64
14	142	180	280	217	e63	195	207	114	108	108	122	60
15	159	159	301	257	e62	159	169	103	93	159	94	84
16	270	144	213	165	235	138	163	120	80	401	91	118
17	259	112	158	126	162	e130	440	125	68	226	200	108
18	292	83	139	e120	132	e122	495	114	60	144	630	106
19	232	78	e130	e112	135	e117	538	103	57	109	372	102
20	190	75	e120	e108	129	e113	411	90	85	115	202	102
21	135	76	e115	e105	124	e110	322	81	223	89	144	95
22	93	326	e110	e102	97	e107	283	74	135	70	114	94
23	83	796	e106	e100	88	e104	254	61	101	82	94	115
24	77	412	e103	e98	96	e101	230	60	166	107	82	114
25	74	285	e100	246	86	e98	419	65	405	76	73	102
26	71	230	e97	188	169	130	424	60	238	62	65	114
27	71	197	e94	124	160	1490	300	58	200	62	58	137
28	66	176	e92	100	137	763	231	59	148	54	55	135
29	60	171	107	e95	123	382	201	61	112	50	143	122
30	56	161	188	e91	---	251	176	52	86	57	89	113
31	54	---	151	e88	---	264	---	107	---	95	68	---
TOTAL	4188	5450	5000	4084	2946	7890	7687	4247	8134	3290	4350	2678
MEAN	135	182	161	132	102	255	256	137	271	106	140	89.3
MAX	305	796	301	257	235	1490	538	568	1640	401	630	137
MIN	54	75	92	88	62	74	138	52	57	50	36	5

MEAN	121	163	185	180	205	305	374	208	129	57.9	89.3	76.2
MAX	832	569	527	474	621	699	786	577	492	276	1228	363
(WY)	1956	1956	1974	1949	1981	1953	1987	1989	1972	1972	1955	1975
MIN	16.8	24.6	37.5	15.7	47.9	106	92.9	59.4	29.8	12.1	9.32	17.2
(WY)	1958	1965	1981	1981	1980	1989	1985	1965	1964	1957	1957	1957

ANNUAL TOTAL	54505		59944				
ANNUAL MEAN	149		164			173	
HIGHEST ANNUAL MEAN						269	1955
LOWEST ANNUAL MEAN						62.0	1965
HIGHEST DAILY MEAN	1030	May 31	1640	Jun 6	24800		Aug 19 1955
LOWEST DAILY MEAN	12	Jul 21	36	Aug 8		.30	Sep 14 1957
ANNUAL SEVEN-DAY MINIMUM	15	Jul 17	59	May 24		5.4	Sep 9 1957
INSTANTANEOUS PEAK FLOW			2310	Jun 6	a44000		Aug 19 1955
INSTANTANEOUS PEAK STAGE			6.20	Jun 6		b16.48	Aug 19 1955
INSTANTANEOUS LOW FLOW			c35	Aug 8		.20	Sep 14 1957
10 PERCENT EXCEEDS	277		284			374	
50 PERCENT EXCEEDS	120		119			100	
90 PERCENT EXCEEDS	20		63			23	

a From rating curve extended above 5,600 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

c Also occurred on Aug. 9 and Sept. 14.

e Estimated

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	16	30	33	e14	e21	53	34	77	8.1	34	8.1
2	8.9	16	27	28	e13	e18	50	40	47	6.4	15	7.3
3	7.8	15	35	27	e12	17	45	147	27	5.9	9.8	12
4	7.3	14	71	58	e11	17	41	70	15	14	8.3	16
5	6.8	13	45	94	e11	21	37	48	70	14	8.8	11
6	55	12	35	68	11	28	32	42	826	24	6.7	9.4
7	69	11	30	51	e10	50	29	34	134	16	5.7	8.4
8	36	11	29	37	e10	88	29	29	258	10	5.2	8.0
9	23	11	59	31	e9.5	69	29	36	100	13	41	6.8
10	18	11	74	30	e9.2	59	31	30	47	9.8	45	5.8
11	34	59	58	24	e9.0	393	35	26	32	7.5	27	16
12	107	78	49	21	e8.8	138	96	21	21	6.1	28	10
13	59	53	74	25	e8.8	74	70	20	15	6.2	14	7.5
14	38	40	111	55	9.3	52	49	17	12	6.4	13	6.1
15	32	33	99	60	9.9	43	42	15	9.5	40	12	5.3
16	77	29	62	40	37	33	37	20	7.6	85	13	4.6
17	63	23	44	31	36	e30	57	19	6.8	37	41	4.4
18	78	20	e35	24	26	e28	100	16	6.2	23	149	4.3
19	53	20	31	17	e24	e26	134	13	6.0	16	66	7.5
20	34	18	e29	e15	e22	e24	106	12	7.6	17	41	3.6
21	28	18	e27	e15	e20	25	85	10	23	12	25	3.0
22	28	137	e25	e22	19	23	66	8.9	13	9.7	16	3.6
23	26	278	e23	33	e18	23	55	7.8	9.6	11	12	8.5
24	23	113	e22	96	e18	22	48	7.1	43	16	9.6	5.9
25	22	79	e21	50	18	21	94	7.4	104	10	8.6	4.4
26	20	58	20	30	40	37	98	7.0	46	8.6	7.4	5.1
27	19	44	e19	22	36	595	66	6.5	36	8.6	6.1	7.9
28	17	37	19	e20	29	148	49	6.2	22	6.8	5.5	7.4
29	16	34	27	e18	21	70	44	5.6	14	6.6	16	5.8
30	14	32	69	e16	---	50	38	4.9	9.8	8.5	11	4.8
31	14	---	48	e15	---	61	---	19	---	18	10	---
TOTAL	1043.0	1333	1347	1106	520.5	2304	1745	779.4	2045.1	481.2	710.7	218.5
MEAN	33.6	44.4	43.5	35.7	17.9	74.3	58.2	25.1	68.2	15.5	22.9	7.28
MAX	107	278	111	96	40	595	134	147	826	85	149	16
MIN	6.8	11	19	15	8.8	17	29	4.9	6.0	5.9	5.2	3.0
CFSM	1.69	2.23	2.18	1.79	.90	3.73	2.92	1.26	3.43	.78	1.15	.37
IN.	1.95	2.49	2.52	2.07	.97	4.31	3.26	1.46	3.82	.90	1.33	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

MEAN	19.5	40.0	44.3	37.2	41.1	81.2	94.9	50.3	29.6	12.0	15.0	13.0
MAX	94.0	92.1	132	92.7	165	193	206	145	124	61.8	270	88.7
(WY)	1990	1989	1974	1979	1981	1953	1958	1989	1972	1969	1955	1975
MIN	1.41	4.86	8.25	3.47	6.64	22.0	26.4	12.2	3.18	1.12	.57	.81
(WY)	1965	1965	1947	1981	1980	1941	1985	1980	1957	1971	1957	1953

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1939 - 1992
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ANNUAL TOTAL	12625.6		13633.4				
ANNUAL MEAN	34.6		37.2			39.8	
HIGHEST ANNUAL MEAN						64.3	1955
LOWEST ANNUAL MEAN						16.2	1965
HIGHEST DAILY MEAN	315	Mar 4	826	Jun 6	5000		Aug 19 1955
LOWEST DAILY MEAN	1.3	Jul 21	3.0	Sep 21	c.20		Sep 10 1953
ANNUAL SEVEN-DAY MINIMUM	1.6	Jul 16	4.4	Sep 16	.21		Aug 15 1957
INSTANTANEOUS PEAK FLOW			1710	Jun 6	a10500		Aug 19 1955
INSTANTANEOUS PEAK STAGE			7.55	Jun 6	b16.50		Aug 19 1955
INSTANTANEOUS LOW FLOW			2.8	Sep 21	d0.0		
ANNUAL RUNOFF (CFSM)	1.74		1.87			2.00	
ANNUAL RUNOFF (INCHES)	23.60		25.49			27.16	
10 PERCENT EXCEEDS	80		72			92	
50 PERCENT EXCEEDS	22		22			19	
90 PERCENT EXCEEDS	2.4		7.1			2.4	

a From rating curve extended above 300 ft³/s, on basis of contracted-opening measurement of peak flow.

b From high water marks in the well.

c Also occurred Aug. 16-21, 1957.

d Occurred frequently during low flow periods.

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, 2000 feet east of the intersection of Covey Road on Hotchkiss Road, 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. Satellite telemetry at this station used for primary stage data. Occasional regulation at low flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.9	6.1	6.2	e5.1	6.8	15	8.1	34	3.2	8.6	2.6
2	2.8	3.8	5.7	e5.7	e4.8	e5.8	12	7.4	12	3.0	3.9	2.6
3	2.6	3.7	14	e5.3	e4.5	e5.4	11	16	6.4	3.5	3.0	3.3
4	2.7	3.5	31	e7.0	e4.3	e5.1	9.3	9.8	4.6	6.1	2.9	4.6
5	2.5	3.3	12	e9.0	e4.1	e5.0	8.6	8.4	19	5.2	2.8	3.4
6	11	3.3	9.2	e7.5	4.0	e4.9	7.6	7.0	165	8.5	2.3	3.1
7	8.6	3.3	8.2	6.5	3.9	14	7.5	6.5	28	5.6	1.9	2.8
8	4.8	3.3	9.1	5.9	e3.6	19	7.3	6.3	17	3.7	1.8	2.9
9	4.4	3.4	15	5.4	e3.5	11	6.8	7.4	12	3.8	5.8	2.8
10	4.3	3.3	14	e5.0	e3.4	9.4	7.0	6.7	10	3.2	4.7	3.1
11	5.6	20	11	e4.7	e3.3	67	7.7	6.0	7.1	3.1	16	4.8
12	13	13	7.1	e4.4	e3.2	21	10	5.6	6.7	2.6	47	3.1
13	6.0	8.5	11	e4.1	e3.1	12	7.6	5.6	5.3	3.5	7.9	2.5
14	4.5	6.7	14	15	e3.0	9.5	7.8	5.4	4.8	2.9	7.4	2.3
15	4.3	5.7	12	10	4.1	7.9	6.1	4.9	4.3	6.3	5.8	2.2
16	21	5.4	8.1	6.5	30	7.3	7.0	7.6	3.9	31	7.2	2.1
17	11	4.7	6.4	5.8	10	e6.7	23	6.9	3.8	6.9	18	1.9
18	18	4.4	6.4	4.9	6.7	e6.3	22	5.6	3.5	5.0	69	1.9
19	8.3	4.3	6.3	e4.6	e5.9	e6.0	19	5.1	3.7	4.1	19	2.0
20	5.8	4.0	6.2	e4.4	e5.4	e5.9	11	4.7	4.4	3.5	9.3	1.8
21	4.9	5.3	6.0	e4.2	e5.0	e5.5	9.9	4.2	5.7	3.1	6.0	1.7
22	4.6	39	e5.6	e4.0	e4.8	e5.4	9.8	3.9	4.2	2.7	4.7	1.9
23	4.3	54	e5.4	12	e4.6	e5.2	8.8	3.5	3.7	3.0	4.0	7.5
24	4.1	18	e5.2	36	e4.4	e5.1	9.3	3.1	8.6	3.8	3.7	3.1
25	4.1	12	e5.0	9.4	e4.3	e5.0	33	3.4	11	2.9	3.4	2.2
26	4.1	9.1	e4.8	8.4	29	17	19	3.3	5.5	2.5	3.1	3.8
27	4.0	7.6	e4.6	e7.4	14	130	12	3.3	5.9	3.0	3.1	5.3
28	4.0	7.3	e4.4	e6.7	10	42	9.8	3.3	6.8	2.7	2.9	4.3
29	3.7	6.8	7.0	e6.2	9.9	19	8.8	3.1	3.9	2.5	9.0	3.0
30	3.6	6.3	11	e5.8	---	13	8.5	2.9	3.4	3.2	4.1	2.5
31	4.1	---	6.9	e5.4	---	17	---	9.6	---	2.6	3.5	---
TOTAL	189.6	276.9	278.7	233.4	201.9	500.2	342.2	184.6	414.2	146.7	291.8	91.1
MEAN	6.12	9.23	8.99	7.53	6.96	16.1	11.4	5.95	13.8	4.73	9.41	3.04
MAX	21	54	31	36	30	130	33	16	165	31	69	7.5
MIN	2.5	3.3	4.4	4.0	3.0	4.9	6.1	2.9	3.4	2.5	1.8	1.7
CFSM	1.49	2.25	2.19	1.84	1.70	3.94	2.78	1.45	3.37	1.15	2.30	.74
IN.	1.72	2.51	2.53	2.12	1.83	4.54	3.10	1.67	3.76	1.33	2.65	.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1992, BY WATER YEAR (WY)

	MEAN	5.15	8.01	8.78	8.77	9.11	16.2	15.2	10.3	6.56	3.74	3.91	3.96
MAX	37.6	28.4	27.1	24.7	25.0	39.4	38.8	30.1	29.2	15.1	36.0	16.4	
(WY)	1956	1956	1974	1979	1981	1983	1983	1989	1982	1938	1955	1934	
MIN	1.02	1.22	2.13	1.07	2.02	6.37	4.26	3.42	1.45	.80	.67	.77	
(WY)	1942	1932	1932	1981	1934	1985	1985	1965	1957	1966	1965	1964	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1932 - 1992

ANNUAL TOTAL	2877.13	3151.3		
ANNUAL MEAN	7.88	8.61		
HIGHEST ANNUAL MEAN			8.30	
LOWEST ANNUAL MEAN			13.2	1973
HIGHEST DAILY MEAN	70	Mar 4	673	Aug 19 1955
LOWEST DAILY MEAN	.84	Sep 12	.31	Jun 22 1965
ANNUAL SEVEN-DAY MINIMUM	.96	Sep 8	.47	Aug 4 1966
INSTANTANEOUS PEAK FLOW		324	Jun 6	a1690 Aug 19 1955
INSTANTANEOUS PEAK STAGE		7.21	Jun 6	b9.22 Aug 19 1955
INSTANTANEOUS LOW FLOW		1.6	Sep 20	.12 Jun 22 1965
ANNUAL RUNOFF (CFSM)	1.92	2.10	2.02	
ANNUAL RUNOFF (INCHES)	26.10	28.59	27.50	
10 PERCENT EXCEEDS	15	15	17	
50 PERCENT EXCEEDS	5.7	5.5	4.9	
90 PERCENT EXCEEDS	1.3	2.9	1.3	

a 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.

b From high water marks.

e Estimated.

CONNECTICUT RIVER BASIN

01188000 BURLINGTON BROOK NEAR BURLINGTON, CT--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 23.5°C July 27, Aug. 9, 1971; minimum, 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO-COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
NOV 14...	1430	6.4	85	7.1	9.0	4.0	1.0	11.3	88	26	20
JAN 17...	1430	4.6	99	6.6	-5.0	0.0	1.0	14.8	104	K1	K3
MAY 08...	1015	6.2	84	7.2	12.0	9.5	1.1	10.7	95	36	K1
JUL 22...	0845	2.7	109	7.6	18.0	15.5	3.8	8.6	88	28	26

DATE	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CaCO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV 14...	19	4.3	1.9	7.6	1.1	0	12	10	8.7	14	0.10
JAN 17...	21	5.0	2.0	8.6	0.90	0	16	13	10	15	0.20
MAY 08...	18	4.4	1.8	8.7	0.90	0	15	12	7.9	12	<0.10
JUL 22...	26	6.6	2.2	11	1.1	0	23	19	7.9	15	<0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 14...	9.3	71	59	--	<0.010	0.083	0.070	0.23	0.30	0.38	<0.010
JAN 17...	10	63	58	--	<0.010	0.230	0.120	0.08	0.20	0.43	0.020
MAY 08...	7.0	40	58	0.110	0.010	0.120	0.120	--	<0.20	--	<0.010
JUL 22...	8.1	68	72	--	<0.010	0.190	0.170	0.13	0.30	0.49	<0.010

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS-SOLVED (UG/L AS Cd) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS Cr) (01030)	COPPER, DIS-SOLVED (UG/L AS Cu) (01040)	IRON, DIS-SOLVED (UG/L AS Fe) (01046)	LEAD, DIS-SOLVED (UG/L AS Pb) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS Mn) (01056)	NICKEL, DIS-SOLVED (UG/L AS Ni) (01065)	ZINC, DIS-SOLVED (UG/L AS Zn) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 14...	<0.010	<0.010	<1.0	<1	<1	160	<1	170	<1	5	3.9
JAN 17...	<0.010	<0.010	<1.0	<1	<1	240	<1	330	<1	10	2.8
MAY 08...	<0.010	<0.010	<1.0	<1	<1	240	<1	250	<1	21	2.5
JUL 22...	<0.010	<0.010	<1.0	<1	<1	500	<1	260	<1	16	2.7

CONNECTICUT RIVER BASIN

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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.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. U. S. Army Corps of Engineers satellite telemetry for stage and discharge is on site. 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, and by diversion for municipal supply from Barkhamsted and Nepaug Reservoirs.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	332	570	450	e390	410	978	644	1090	351	652	385
2	367	382	493	420	e380	e350	902	637	741	325	519	377
3	359	387	496	432	e370	319	813	1370	493	302	445	396
4	343	392	841	490	e365	282	725	1080	406	392	369	436
5	339	448	640	614	e355	295	662	859	523	439	373	409
6	596	447	525	562	e350	338	624	732	5310	485	354	393
7	743	453	474	542	e340	398	614	647	3020	472	334	383
8	571	453	459	e520	e330	700	588	591	2340	392	321	364
9	479	439	521	e510	e325	610	564	578	2930	389	562	416
10	443	435	633	e500	e320	529	546	543	1610	361	728	351
11	488	588	568	e490	e308	1700	554	506	1050	332	694	396
12	864	741	504	e485	e300	1360	846	467	752	315	877	435
13	690	606	513	e580	e290	1040	853	447	638	317	617	396
14	570	536	641	756	e312	829	739	432	524	362	579	384
15	567	496	741	922	e312	677	632	476	508	504	525	397
16	845	464	583	758	622	564	589	591	614	997	493	473
17	783	429	461	652	561	e540	938	548	597	700	693	486
18	888	381	e430	e610	434	e520	1380	566	542	519	1660	479
19	760	407	e380	e590	418	e500	1490	568	532	467	1190	487
20	682	411	e370	e580	424	e485	1250	527	564	464	811	475
21	620	424	e365	e580	403	e480	1080	498	728	451	670	437
22	544	854	e350	e600	378	e470	960	486	619	428	599	421
23	511	1850	e340	648	332	e460	891	469	459	422	560	492
24	498	1120	e335	1070	360	e450	810	441	477	480	537	447
25	490	855	e330	740	391	439	1240	462	864	430	528	427
26	486	732	e330	568	648	e440	1350	460	654	400	527	435
27	488	667	e330	475	674	3670	1090	456	553	411	515	490
28	470	633	e335	450	576	2790	892	454	483	440	491	498
29	451	614	e340	e410	511	1670	784	454	412	428	576	449
30	440	592	526	e400	---	1160	698	437	375	419	563	421
31	428	---	502	e390	---	1060	---	549	---	519	489	---
TOTAL	17185	17568	14926	17794	11779	25535	26082	17975	30408	13713	18851	12835
MEAN	554	586	481	574	406	824	869	580	1014	442	608	428
MAX	888	1850	841	1070	674	3670	1490	1370	5310	997	1660	498
MIN	339	332	330	390	290	282	546	432	375	302	321	351

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	460	552	564	594	646	961	1264	853	783	338	467	418			
MAX	1117	929	1240	1661	1114	1907	2902	1902	2149	489	763	589			
(WY)	1990	1990	1978	1978	1984	1983	1983	1989	1982	1989	1990	1978			
MIN	175	214	207	135	201	289	269	238	183	159	225	308			
(WY)	1981	1985	1981	1981	1980	1989	1985	1985	1985	1985	1985	1981			

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1978 - 1992

ANNUAL TOTAL	221176	224651		
ANNUAL MEAN	606	614	658	
HIGHEST ANNUAL MEAN			954	1984
LOWEST ANNUAL MEAN			287	1985
HIGHEST DAILY MEAN	2430	Mar 4	5310	Jun 6
LOWEST DAILY MEAN	139	Sep 5	282	Mar 4
ANNUAL SEVEN-DAY MINIMUM	230	Sep 4	310	Feb 9
INSTANTANEOUS PEAK FLOW			8300	Jun 6
INSTANTANEOUS PEAK STAGE			11.76	Jun 6
INSTANTANEOUS LOW FLOW			222	May 17
10 PERCENT EXCEEDS	1040		891	
50 PERCENT EXCEEDS	502		498	
90 PERCENT EXCEEDS	309		353	

e Estimated

CONNECTICUT RIVER BASIN

01188090 FARMINGTON RIVER AT UNIONVILLE, CT

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-80, 1984 to present.

REMARKS.--Water-quality records for this site published under station 01188085 from water year 1984 to water year 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
18...	1115	906	78	7.4	20.0	11.5	1.1	11.0	101	27	K16
NOV											
14...	1230	530	84	8.0	12.0	4.5	1.4	13.6	105	480	52
DEC											
05...	1230	612	91	7.4	-1.5	1.5	1.1	13.9	99	84	K7
JAN											
17...	1320	651	85	6.8	-5.0	0.0	1.2	15.5	108	68	30
MAR											
17...	1315	525	84	7.4	4.5	1.0	0.70	14.8	104	80	55
APR											
14...	1130	732	74	7.2	12.0	6.5	0.80	13.9	112	K8	K3
MAY											
08...	1200	584	78	8.0	14.0	10.5	0.60	12.1	107	K7	K2
JUN											
12...	1140	798	69	7.4	25.0	17.5	1.4	9.8	103	38	K9
JUL											
22...	1030	416	85	7.7	21.5	17.5	0.90	9.7	101	33	K17
AUG											
12...	1200	906	74	7.6	23.0	17.5	2.4	9.9	104	300	53
SEP											
21...	1210	444	81	8.3	23.0	19.0	1.6	9.7	105	31	K11

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
18...	21	5.6	1.8	6.7	0.90	0	15	12	3.2	11	0.10
NOV											
14...	22	5.9	1.8	7.1	1.0	0	21	17	7.8	11	0.10
DEC											
05...	21	5.6	1.7	8.1	-	0	14	11	7.9	13	0.10
JAN											
17...	21	5.5	1.7	6.9	0.90	0	15	12	8.6	11	0.20
MAR											
17...	20	5.1	1.7	7.4	0.90	0	13	11	8.1	12	0.20
APR											
14...	17	4.6	1.4	6.1	0.90	0	13	11	8.1	11	0.20
MAY											
08...	19	5.1	1.6	7.0	0.90	0	13	11	7.5	10	<0.10
JUN											
12...	17	4.4	1.4	6.0	0.80	0	12	10	8.7	12	0.10
JUL											
22...	22	5.9	1.7	7.5	0.90	0	17	14	6.4	10	<0.10
AUG											
12...	20	5.3	1.6	5.9	0.90	0	16	13	6.3	8.9	<0.10
SEP											
21...	20	5.5	1.6	6.6	0.90	0	17	14	6.1	10	0.10

CONNECTICUT RIVER BASIN

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01188090 FARMINGTON RIVER AT UNIONVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 18...	5.6	46	54	--	<0.010	0.100	0.020	--	<0.20	--	0.010
NOV 14...	4.9	55	63	0.080	0.020	0.100	0.010	0.29	0.30	0.40	<0.010
DEC 05...	6.7	50	74	0.180	0.010	0.190	<0.010	--	<0.20	--	0.010
JAN 17...	6.0	53	47	0.160	0.010	0.170	0.040	--	<0.20	--	0.040
MAR 17...	5.9	42	57	--	<0.010	0.210	0.020	--	<0.20	--	<0.010
APR 14...	5.0	51	46	--	<0.010	0.180	0.020	--	<0.20	--	<0.010
MAY 08...	4.5	51	54	0.130	0.010	0.140	0.030	--	<0.20	--	<0.010
JUN 12...	8.6	47	53	--	<0.010	0.140	0.030	0.27	0.30	0.44	<0.010
JUL 22...	4.2	53	62	--	<0.010	0.180	0.030	--	<0.20	--	<0.010
AUG 12...	4.3	53	71	--	<0.010	0.170	0.050	0.25	0.30	0.47	0.090
SEP 21...	3.1	48	56	--	<0.010	0.110	0.020	0.18	0.20	0.31	<0.010

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 18...	<0.010	<0.010	<1.0	<1	2	110	<1	8	2	14	5.0
NOV 14...	<0.010	<0.010	<1.0	<1	1	86	<1	6	<1	<3	4.5
DEC 05...	<0.010	<0.010	<1.0	1	<1	100	<1	16	<1	8	3.7
JAN 17...	0.010	<0.010	<1.0	<1	<1	110	<1	37	<1	10	3.5
MAR 17...	<0.010	<0.010	<1.0	2	1	73	<1	25	<1	9	2.8
APR 14...	<0.010	0.020	<1.0	1	1	62	<1	16	1	12	3.3
MAY 08...	<0.010	<0.010	<1.0	<1	<1	90	<1	19	<1	20	2.5
JUN 12...	0.030	<0.010	<1.0	<1	1	84	<1	20	<1	5	3.4
JUL 22...	<0.010	0.010	<1.0	<1	<1	100	<1	12	<1	4	3.2
AUG 12...	0.020	0.070	<1.0	<1	<1	140	<1	24	<1	4	5.3
SEP 21...	0.020	<0.010	<1.0	<1	<1	93	<1	7	<1	4	4.5

01189000 PEOUABUCK 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Flow regulated by Whipple Reservoir and mills upstream.

Conductance and temperature determinations tables. Flow regulated by Whigville Reservoir and mills upstream. Diversion for municipal supply of city of New Britain from Whigville Reservoir, Whites Bridge wells, and Coppermine Brook.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	37	61	e54	e52	68	146	88	190	41	66	40
2	38	35	59	e50	e50	e63	138	90	83	38	39	35
3	36	35	190	e47	e48	e58	120	133	56	53	34	56
4	36	34	270	91	e46	e55	109	96	45	65	36	87
5	48	34	128	91	e44	e52	107	84	498	52	33	41
6	120	34	e100	74	e42	e50	100	79	2070	69	30	37
7	67	33	e88	63	e41	94	92	74	493	45	29	37
8	50	33	e84	57	e40	107	92	74	254	39	27	37
9	43	34	e80	e52	e39	82	85	81	188	44	95	34
10	40	34	110	e56	e38	76	82	73	139	38	45	34
11	46	101	88	e52	e37	456	82	72	107	35	36	45
12	48	78	80	49	e36	177	86	65	91	88	62	33
13	39	54	89	e46	e35	123	79	61	81	94	46	30
14	37	47	127	138	e37	102	72	60	71	41	64	30
15	85	43	106	87	75	e88	70	56	64	108	36	29
16	96	42	86	63	248	e80	92	88	58	186	73	28
17	95	43	74	e56	93	e72	195	67	54	62	74	28
18	98	38	e67	e51	70	e69	188	59	51	53	438	27
19	61	37	e62	e48	70	e66	172	56	52	44	207	28
20	53	36	e59	e46	66	e64	128	51	95	39	95	26
21	47	58	e56	e44	61	e63	116	49	62	36	65	26
22	43	322	e54	e43	58	e62	115	47	51	34	54	29
23	41	421	e53	270	57	e61	110	44	47	46	47	76
24	40	171	e52	247	58	e60	122	42	167	39	43	31
25	40	119	e50	106	62	e59	216	43	82	34	45	28
26	39	92	e49	e80	180	148	165	43	58	34	43	54
27	39	77	e48	e68	117	1030	130	43	69	37	53	43
28	40	73	e47	e64	94	452	114	42	53	32	49	39
29	38	69	75	e60	85	221	98	37	46	35	78	33
30	40	64	87	e56	---	172	91	35	43	35	50	29
31	38	---	65	e54	---	182	---	189	---	157	43	---
TOTAL	1620	2328	2644	2363	1979	4512	3512	2121	5418	1753	2135	1130
MEAN	52.3	77.6	85.3	76.2	68.2	146	117	68.4	181	56.5	68.9	37.7
MAX	120	421	270	270	248	1030	216	189	2070	186	438	87
MIN	36	33	47	43	35	50	70	35	43	32	27	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1992, BY WATER YEAR (WY)

MEAN	49.0	67.5	80.3	83.2	93.7	146	145	101	70.2	41.1	41.9	37.7
MAX	372	303	212	232	214	391	463	396	368	99.4	356	167
(WY)	1956	1956	1974	1979	1951	1983	1983	1989	1982	1972	1955	1975
MIN	11.6	17.4	18.5	11.7	32.1	39.9	26.5	27.0	22.1	18.7	14.7	14.8
(WY)	1942	1950	1981	1981	1980	1985	1985	1965	1957	1957	1944	1986

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1942 - 1992
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ANNUAL TOTAL	29614		31515			
ANNUAL MEAN	81.1		86.1		79.6	
HIGHEST ANNUAL MEAN					136	1984
LOWEST ANNUAL MEAN					29.9	1965
HIGHEST DAILY MEAN	767	Aug 19	2070	Jun 6	6500	Aug 19 1955
LOWEST DAILY MEAN	20	Jul 20	26	Sep 20	7.0	Oct 26 1941
ANNUAL SEVEN-DAY MINIMUM	22	Jul 14	27	Sep 15	9.2	Oct 20 1941
INSTANTANEOUS PEAK FLOW			3460	Jun 6	11700	Aug 19 1955
INSTANTANEOUS PEAK STAGE			7.54	Jun 6	13.22	Aug 19 1955
INSTANTANEOUS LOW FLOW			20	Sep 21	6.5	Sep 21 1941
10 PERCENT EXCEEDS	142		138		160	
50 PERCENT EXCEEDS	61		58		48	
90 PERCENT EXCEEDS	27		35		19	

a. From rating curve extended above 2,100 ft³/s on basis of slope-area measurement at gage heights of 7.3 and 13.22 ft.

b From high-water mark in gage house.

c Also occurred on Sept. 22, 1941.

e Estimated.

CONNECTICUT RIVER BASIN

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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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
18...	0915	132	153	7.1	17.5	11.0	5.5	8.5	77	640	840
NOV											
14...	1130	64	247	7.2	11.5	5.0	5.8	9.4	74	900	740
DEC											
05...	1030	166	136	7.1	-0.5	1.5	3.1	11.4	82	520	500
JAN											
17...	1210	71	250	7.0	-5.0	0.5	6.5	13.7	97	280	333
MAR											
17...	1440	97	252	7.1	5.5	3.0	2.5	12.7	95	130	112
APR											
14...	0930	94	218	7.4	9.0	7.0	2.0	11.2	91	K28	K15
MAY											
08...	0845	92	242	7.4	12.0	11.0	2.0	7.8	70	260	75
JUN											
12...	0945	124	194	7.1	21.0	16.5	3.5	7.4	76	410	76
JUL											
15...	0845	48	264	7.3	25.5	22.5	4.8	5.3	62	1100	600
AUG											
12...	0950	88	269	7.3	23.0	18.0	3.4	6.1	65	580	52
SEP											
21...	1030	35	305	7.5	23.0	16.5	3.2	7.8	80	530	28

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
18...	37	11	2.4	14	2.8	0	33	27	13	16
NOV										
14...	54	16	3.5	22	5.8	0	56	46	32	25
DEC										
05...	32	9.6	2.0	11	2.1	0	24	20	12	14
JAN										
17...	56	17	3.3	22	3.3	0	52	43	15	26
MAR										
17...	56	17	3.3	21	5.3	0	48	39	23	28
APR										
14...	50	15	3.1	18	2.8	0	47	39	17	28
MAY										
08...	59	18	3.5	22	4.5	0	55	45	19	29
JUN										
12...	50	15	3.0	15	2.6	0	45	37	26	41
JUL										
15...	63	19	3.7	25	4.3	0	48	39	17	30
AUG										
12...	66	20	3.8	25	4.4	0	56	46	20	33
SEP										
21...	66	20	3.9	28	5.0	0	57	47	21	37

CONNECTICUT RIVER BASIN

01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 18...	0.20	8.9	84	113	1.26	0.040	1.30	0.270	0.43	0.70
NOV 14...	0.20	10	152	176	2.06	0.040	2.10	1.50	0.80	2.3
DEC 05...	<0.10	8.8	89	101	1.39	0.010	1.40	0.070	0.33	0.40
JAN 17...	0.20	11	140	142	3.06	0.040	3.10	0.650	0.55	1.2
MAR 17...	0.10	9.4	147	163	4.50	0.100	4.60	0.460	0.54	1.0
APR 14...	0.20	8.4	130	133	2.63	0.070	2.70	0.280	0.52	0.80
MAY 08...	0.20	7.8	148	155	2.77	0.130	2.90	0.940	0.36	1.3
JUN 12...	0.30	10	126	115	2.07	0.030	2.10	0.130	0.47	0.60
JUL 15...	0.30	10	159	163	3.78	0.120	3.90	0.290	0.71	1.0
AUG 12...	0.30	11	167	184	4.20	0.200	4.40	0.450	0.75	1.2
SEP 21...	0.30	10	195	209	4.94	0.060	5.00	0.140	0.66	0.80

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 18...	2.0	0.270	0.210	0.200	2	<1.0	3	2	22	12
NOV 14...	4.4	0.540	0.400	0.350	12	10	6	<1	--	9
DEC 05...	1.8	0.200	0.130	0.130	2	1.0	2	<1	--	9
JAN 17...	4.3	0.470	0.380	0.350	1	1.0	5	2	19	14
MAR 17...	5.6	0.400	0.290	0.310	2	1.0	4	<1	15	7
APR 14...	3.5	0.350	0.270	0.280	1	<1.0	<1	<1	12	7
MAY 08...	4.2	0.410	0.350	0.360	1	<1.0	2	<1	12	8
JUN 12...	2.7	0.240	0.160	0.230	1	<1.0	<1	<1	19	10
JUL 15...	4.9	0.600	0.500	0.500	2	<1.0	10	<1	22	8
AUG 12...	5.6	0.680	0.560	0.670	1	<1.0	6	2	26	10
SEP 21...	5.8	0.890	0.730	0.710	1	<1.0	6	2	12	14

CONNECTICUT RIVER BASIN

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01189030 PEQUABUCK RIVER AT FARMINGTON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 18...	680	190	6	<1	40	7	<1	<10	38	6.5
NOV 14...	820	180	9	1	110	11	10	480	430	6.5
DEC 05...	480	180	2	1	31	<1	4	50	35	4.7
JAN 17...	850	150	4	<1	100	8	6	50	57	4.7
MAR 17...	550	130	3	<1	92	7	5	50	32	4.1
APR 14...	370	110	2	<1	68	5	6	30	23	3.8
MAY 08...	550	160	2	<1	90	5	5	30	29	4.4
JUN 12...	890	320	3	<1	140	6	5	30	35	4.5
JUL 15...	810	160	73	<1	86	6	6	40	37	5.3
AUG 12...	790	110	6	<1	59	6	5	60	33	5.9
SEP 21...	650	93	3	<1	46	6	6	30	23	4.8

CONNECTICUT RIVER BASIN

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT

LOCATION.--Lat 41°54'30", long 72°45'40", Hartford County, Hydrologic Unit 01080207, on right bank at Tariffville, behind house at 20 Tunxis Road, 0.3 mi 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, and by diversion for municipal supply from Barkhamsted, Nepaug and Whigville Reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687	666	1000	838	e690	829	1930	1180	1810	655	1210	655
2	670	627	937	771	e660	e700	1740	1140	1770	624	978	601
3	647	636	981	e740	e650	e660	1590	1840	1140	593	755	612
4	628	633	1620	e710	e630	e620	1400	2020	798	652	657	738
5	605	644	1650	1210	e620	e580	1260	1620	789	777	631	688
6	855	671	1240	1140	e600	e560	1170	1350	6210	820	606	632
7	1330	671	1050	996	e590	691	1110	1180	7020	847	565	612
8	1110	678	973	e940	e585	1100	1060	1070	6100	733	531	605
9	868	666	1030	e900	e580	1180	1000	1050	5930	669	759	612
10	757	657	1190	e870	e570	1020	969	1010	4050	661	1200	587
11	721	809	1180	e850	e560	2140	952	943	2540	609	1030	577
12	1230	1320	1030	e840	e550	3060	1270	865	1830	568	1400	635
13	1240	1160	981	e830	e545	2150	1510	814	1400	593	1110	614
14	976	953	1130	1100	e540	1690	1300	783	1180	640	890	574
15	868	849	1360	1610	758	1350	1130	749	996	673	875	564
16	1310	799	1220	1350	1150	1110	1010	885	1010	1430	775	580
17	1400	741	991	1110	1360	1020	1440	990	1010	1480	1030	642
18	1500	692	879	e1050	998	978	2220	873	956	1020	2390	641
19	1380	669	772	e1000	838	948	2440	893	897	796	2540	651
20	1140	668	e740	e950	816	e900	2270	854	916	752	1840	648
21	1010	669	e700	e940	764	e880	1930	783	1080	725	1270	629
22	923	1160	e675	e910	718	e860	1710	752	1100	673	1020	598
23	835	2950	e660	e900	673	e840	1590	723	899	657	905	707
24	794	2730	e640	1960	633	e820	1440	687	854	736	830	688
25	776	1960	e625	1830	666	e810	1840	671	1390	706	789	625
26	764	1500	e615	1360	1040	e800	2350	684	1360	646	766	617
27	768	1270	e600	1040	1490	3570	2070	681	1040	636	761	695
28	754	1160	e595	e860	1210	5020	1710	677	927	641	747	704
29	717	1100	e590	e800	1010	4060	1460	675	785	640	780	678
30	697	1040	897	e750	---	2660	1290	663	701	652	859	618
31	688	---	996	e720	---	2090	---	694	---	741	758	---
TOTAL	28648	30748	29547	31875	22494	45696	46161	29799	58488	23045	31257	19027
MEAN	924	1025	953	1028	776	1474	1539	961	1950	743	1008	634
MAX	1500	2950	1650	1960	1490	5020	2440	2020	7020	1480	2540	738
MIN	605	627	590	710	540	560	952	663	701	568	531	564

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	MEAN	823	965	1153	1155	1273	1843	2168	1517	1285	718	714	713
MAX	2233	1965	2308	2886	2790	3378	4721	3329	3647	2398	1285	1794	
(WY)	1976	1976	1973	1978	1976	1983	1983	1989	1982	1972	1990	1975	
MIN	253	351	287	140	366	627	475	470	355	306	414	435	
(WY)	1981	1985	1981	1981	1980	1985	1985	1985	1985	1985	1985	1980	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1972 - 1992

ANNUAL TOTAL	381467	396785		
ANNUAL MEAN	1045	1084		
HIGHEST ANNUAL MEAN			1192	
LOWEST ANNUAL MEAN			1637	1972
			451	1985
HIGHEST DAILY MEAN	3770	Mar 5	7020	Jun 7
LOWEST DAILY MEAN	256	Sep 10	531	Aug 8
ANNUAL SEVEN-DAY MINIMUM	366	Sep 5	561	Feb 8
INSTANTANEOUS PEAK FLOW			7910	Jun 6
INSTANTANEOUS PEAK STAGE			7.47	Jun 6
INSTANTANEOUS LOW FLOW			520	Aug 8
10 PERCENT EXCEEDS	1910	1720	2430	
50 PERCENT EXCEEDS	900	859	804	
90 PERCENT EXCEEDS	441	618	389	

a From computation of flow over dam 0.6 mi downstream.

b From floodmarks.

c Probably less than 30 ft³/s Mar. 1, 1938, river level below intake.

e Estimated.

CONNECTICUT RIVER BASIN

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01189995 FARMINGTON RIVER AT TARIFFVILLE, CT.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1971 to January 1972.

WATER TEMPERATURES: January 1971 to January 1972.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 285 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF TOTAL (COL / 100 ML) (31649)
OCT 18...	1330	1480	102	7.4	23.0	11.5	2.3	9.9	91	92	42
NOV 14...	0930	926	115	7.2	11.0	3.5	2.2	12.5	94	80	55
DEC 05...	1415	1580	109	7.2	-2.0	2.5	2.6	12.3	90	150	132
JAN 17...	1000	942	117	6.7	-5.0	0.0	2.0	15.4	106	72	200
MAR 17...	1030	1000	117	6.6	1.5	1.0	1.0	13.5	95	170	48
APR 14...	1330	1260	103	7.4	13.0	7.0	1.3	13.2	108	K12	K2
MAY 08...	1340	1040	111	7.5	14.0	11.0	1.0	11.3	101	38	K3
JUN 12...	1411	1760	94	7.1	28.0	17.5	2.6	8.3	87	120	K7
JUL 22...	1320	669	118	7.3	19.0	19.5	1.8	7.8	85	62	20
AUG 12...	1330	1470	97	7.2	23.5	18.0	5.4	7.9	84	2900	420
SEP 21...	1345	614	119	7.5	23.0	18.5	1.9	8.3	89	150	144

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 18...	28	8.1	2.0	7.8	1.4	0	23	19	9.3	13	0.10
NOV 14...	31	8.9	2.1	8.7	1.6	0	26	21	10	14	0.10
DEC 05...	28	8.2	1.9	8.8	1.3	0	21	17	8.4	12	<0.10
JAN 17...	29	8.3	1.9	8.6	1.1	0	25	20	11	15	0.20
MAR 17...	32	9.2	2.1	9.5	1.1	0	25	20	9.9	13	0.20
APR 14...	27	7.7	1.8	8.0	1.1	0	21	17	9.8	13	0.20
MAY 08...	31	9.2	2.0	8.6	1.2	0	26	21	9.6	12	<0.10
JUN 12...	26	7.6	1.7	6.7	1.0	0	23	19	12	14	<0.10
JUL 22...	34	10	2.2	9.9	1.2	0	30	25	8.4	13	<0.10
AUG 12...	28	8.3	1.8	7.2	1.3	0	24	20	7.3	11	<0.10
SEP 21...	31	9.1	2.0	9.4	1.4	0	27	22	8.3	13	0.10

CONNECTICUT RIVER BASIN

01189995 FARMINGTON RIVER AT TARIFFVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 18...	7.3	65	69	0.480	0.010	0.490	0.110	0.19	0.30	0.79	0.090
NOV 14...	6.7	75	84	0.480	0.020	0.500	0.150	0.35	0.50	1.0	0.080
DEC 05...	7.4	69	79	--	<0.010	0.550	0.070	0.33	0.40	0.95	0.090
JAN 17...	7.2	70	71	0.560	0.020	0.580	0.140	0.26	0.40	0.98	0.080
MAR 17...	6.6	59	76	--	<0.010	0.660	0.170	0.23	0.40	1.1	0.060
APR 14...	6.0	74	71	--	<0.010	0.530	0.060	--	<0.20	--	0.050
MAY 08...	5.3	69	75	0.590	0.030	0.620	0.090	0.11	0.20	0.82	0.040
JUN 12...	6.6	60	62	--	<0.010	0.460	0.100	0.30	0.40	0.86	0.020
JUL 22...	5.7	68	80	0.770	0.020	0.790	0.100	0.30	0.40	1.2	0.100
AUG 12...	5.5	63	80	0.490	0.010	0.500	0.070	0.33	0.40	0.90	0.100
SEP 21...	4.0	68	80	--	<0.010	0.640	0.060	0.24	0.30	0.94	0.100

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 18...	0.060	0.060	<1.0	<1	2	120	2	20	<1	9	5.1
NOV 14...	0.070	0.060	<1.0	<1	2	120	<1	18	1	19	4.9
DEC 05...	0.040	0.050	<1.0	<1	3	150	<1	24	<1	17	4.1
JAN 17...	0.060	0.040	<1.0	<1	1	89	<1	24	<1	6	3.9
MAR 17...	0.030	0.050	<1.0	<1	2	88	<1	47	<1	19	2.8
APR 14...	0.030	0.040	<1.0	<1	2	78	<1	24	1	16	3.3
MAY 08...	0.030	0.040	<1.0	<1	2	130	<1	38	<1	4	2.9
JUN 12...	0.040	0.040	<1.0	<1	2	150	<1	58	1	11	4.7
JUL 22...	0.070	0.090	<1.0	<1	2	130	<1	34	<1	5	3.3
AUG 12...	0.060	0.040	<1.0	<1	2	120	<1	18	<1	9	6.9
SEP 21...	0.090	0.080	<1.0	<1	3	98	<1	19	1	4	3.8

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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.

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, 25.0°C July 14; minimum, 6.5°C April 3-6, 18, 19. Farmington River, maximum, 23.5°C July 14, Aug. 28, 29; minimum, 0.0°C on numerous days during the winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

TAKEN IN FISHWAY

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

TAKEN IN FISHWAY

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

TAKEN IN TAILRACE

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

CONNECTICUT RIVER BASIN

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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 (1973-90), -0.91 ft, Aug. 12, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68,200 ft³/s, Apr. 27, elevation, 16.15 ft; minimum tidal elevation, -0.05 ft, Feb. 10.

ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum	Elevation	10.52	10.61	8.01	6.96	4.54	15.38	16.15	13.10	8.77	4.54	4.15	4.27
	Date	9	24	18	24	16	13	27	4	7	17	29	26
	Time	0745	1845	0045	0730	1230	1145	0530	2230	0900	1700	0345	1400
Minimum	Elevation	2.18	1.60	2.46	2.52	-0.05	0.87	4.40	1.30	1.06	0.64	0.51	0.35
	Date	29	4	29	13	10	2	29	10	22	31	31	1
	Time	0230	0830	0500	1730	1400	0930	0315	1945	1500	1115	1230	1315

NOTE.--Time shown is eastern standard.

CONNECTICUT RIVER BASIN

01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED (MG/L) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT											
21...	1245	90	7.4	12.5	10.5	2.3	10.5	93	70	44	30
NOV											
18...	1345	105	7.1	12.0	2.5	1.7	12.2	88	260	92	34
DEC											
11...	1245	99	6.9	15.0	3.0	2.2	13.5	99	88	20	30
JAN											
15...	1400	118	7.0	-5.0	1.0	3.3	14.8	104	130	520	32
MAR											
13...	1430	91	7.0	2.0	1.0	18	14.8	104	420	280	26
APR											
20...	1230	98	7.5	11.0	5.0	1.9	13.1	101	110	35	28
MAY											
11...	1330	90	7.3	23.0	12.0	3.7	10.9	100	68	K10	29
JUN											
19...	1145	125	7.5	20.0	20.0	0.90	8.0	88	60	K12	38
JUL											
08...	1415	135	7.5	27.0	22.0	1.7	8.4	96	110	K3	41
AUG											
19...	1215	115	7.2	25.0	20.0	5.3	7.8	86	2900	200	33
SEP											
17...	1245	147	7.7	30.0	22.0	1.0	8.2	94	340	K4	44

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)
OCT											
21...	9.5	1.5	5.6	1.2	0	26	21	8.3	8.4	0.10	6.7
NOV											
18...	11	1.6	7.2	1.3	0	36	30	9.9	10	0.20	6.0
DEC											
11...	9.5	1.5	6.6	1.1	0	24	20	9.4	8.9	<0.10	6.4
JAN											
15...	10	1.6	7.8	1.0	0	30	25	11	14	0.20	6.4
MAR											
13...	8.1	1.3	6.3	1.3	0	22	18	7.0	9.1	0.20	4.8
APR											
20...	9.1	1.4	6.3	1.0	0	26	21	7.5	10	<0.10	5.2
MAY											
11...	9.3	1.4	5.9	1.0	0	26	21	7.6	8.4	<0.10	5.0
JUN											
19...	12	1.9	9.2	1.3	0	33	27	19	22	0.20	5.0
JUL											
08...	13	2.1	9.3	1.5	0	38	31	9.7	14	<0.10	4.0
AUG											
19...	10	2.0	8.3	1.5	0	32	26	8.8	12	<0.10	5.2
SEP											
17...	14	2.2	10	1.7	0	43	35	11	15	0.10	3.0

CONNECTICUT RIVER BASIN

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01190070 CONNECTICUT RIVER AT HARTFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L) AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L) AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	NITRO- GEN, TOTAL (MG/L) AS N) (00600)	PHOS- PHORUS TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L) AS P) (00666)
OCT 21...	60	70	--	<0.010	0.200	0.040	0.16	0.20	0.40	0.030	0.020
NOV 18...	69	79	0.260	0.040	0.300	0.110	0.19	0.30	0.60	0.030	<0.010
DEC 11...	53	84	--	<0.010	0.350	0.100	0.20	0.30	0.65	0.050	0.020
JAN 15...	64	70	0.460	0.010	0.470	0.150	0.25	0.40	0.87	0.050	0.050
MAR 13...	55	--	--	<0.010	0.290	0.100	0.60	0.70	0.99	0.150	<0.010
APR 20...	70	69	--	<0.010	0.360	0.070	0.23	0.30	0.66	<0.010	<0.010
MAY 11...	52	73	--	<0.010	0.290	0.090	0.11	0.20	0.49	<0.010	<0.010
JUN 19...	74	84	0.430	0.020	0.450	0.060	0.14	0.20	0.65	0.040	<0.010
JUL 08...	80	92	0.470	0.020	0.490	0.050	0.15	0.20	0.69	0.050	0.010
AUG 19...	76	118	0.440	0.030	0.470	0.080	0.22	0.30	0.77	0.070	0.020
SEP 17...	81	92	0.440	0.020	0.460	0.020	0.88	0.90	1.4	--	0.030

DATE	PHOS- PHORUS ORTHO TOTAL (MG/L) AS P) (70507)	CADMIUM DIS- SOLVED (UG/L) AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L) AS NI) (01065)	ZINC, DIS- SOLVED (UG/L) AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)
OCT 21...	<0.010	<1.0	<1	2	98	<1	11	<1	6	5.5
NOV 18...	0.010	<1.0	<1	1	99	<1	12	<1	5	4.4
DEC 11...	0.010	<1.0	<1	2	96	<1	15	<1	5	3.8
JAN 15...	0.030	<1.0	<1	<1	79	<1	19	<1	4	3.4
MAR 13...	0.030	<1.0	<1	2	100	<1	27	<1	4	9.3
APR 20...	0.020	<1.0	<1	1	64	<1	11	1	15	3.1
MAY 11...	0.010	<1.0	<1	1	78	<1	21	<1	8	3.6
JUN 19...	0.020	<1.0	<1	2	85	<1	17	1	5	3.8
JUL 08...	0.020	<1.0	<1	2	45	<1	10	<1	15	3.6
AUG 19...	0.040	<1.0	<1	2	110	<1	12	<1	15	6.1
SEP 17...	0.040	<1.0	<1	2	36	<1	10	1	9	3.9

CONNECTICUT RIVER BASIN

01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT

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

DRAINAGE AREA.--73.4 mi².

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 those for periods of estimated record, which are fair. Flow regulated by Shenipsit Lake, small reservoirs, and industrial plants.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	66	133	100	93	119	214	103	106	77	93	62
2	e60	63	130	99	88	114	205	113	90	68	84	61
3	e46	61	244	102	85	111	184	145	82	64	92	83
4	e37	60	332	129	82	109	173	155	77	78	116	99
5	e31	60	194	129	80	105	166	196	109	76	102	75
6	e70	60	159	120	77	103	170	163	622	91	78	61
7	e110	59	150	109	75	124	161	137	220	76	72	59
8	e100	60	147	100	75	123	193	124	153	72	69	60
9	e86	59	141	99	74	115	204	130	144	71	112	59
10	e76	65	150	100	72	114	178	123	135	68	95	58
11	e63	180	137	99	74	360	160	107	120	64	91	71
12	e98	162	131	94	76	250	148	103	110	62	86	60
13	e85	115	137	93	73	200	134	107	101	79	77	54
14	e73	99	151	131	77	179	119	108	91	64	82	52
15	e64	101	142	120	87	161	96	106	81	78	79	56
16	e76	114	131	111	211	152	114	113	73	139	102	52
17	e77	106	123	106	124	148	161	107	72	89	151	50
18	e100	94	118	e100	118	143	162	102	70	84	252	43
19	73	72	111	e96	115	145	162	98	67	81	173	23
20	65	71	103	e92	110	105	172	93	82	78	149	21
21	63	86	104	e88	105	109	196	89	94	75	e128	20
22	63	191	101	84	102	129	176	82	93	72	106	21
23	61	400	98	171	106	134	160	77	84	78	93	42
24	60	218	94	196	110	128	151	73	134	75	86	20
25	60	165	92	138	115	125	182	74	123	74	77	34
26	59	142	91	122	243	141	164	75	110	75	74	55
27	59	143	90	114	196	481	180	74	111	76	80	56
28	60	141	88	110	149	252	196	72	102	70	77	51
29	58	139	115	104	130	217	169	70	92	70	79	48
30	60	137	123	100	---	207	132	69	83	68	73	45
31	59	---	106	97	---	235	---	75	---	93	66	---
TOTAL	2127	3489	4166	3453	3122	5138	4982	3263	3631	2385	3094	1551
MEAN	68.6	116	134	111	108	166	166	105	121	76.9	99.8	51.7
MAX	110	400	332	196	243	481	214	196	622	139	252	99
MIN	31	59	88	84	72	103	96	69	67	62	66	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1992, BY WATER YEAR (WY)

	MEAN	70.7	91.9	108	124	139	193	192	140	109	73.8	71.9	71.0
MAX	284	381	256	368	371	406	430	262	448	200	289	518	
(WY)	1956	1956	1978	1979	1970	1920	1983	1984	1982	1938	1955	1938	
MIN	25.8	35.4	31.6	23.2	57.4	82.0	65.2	56.1	36.3	29.5	28.4	27.0	
(WY)	1931	1965	1931	1981	1980	1985	1985	1965	1965	1965	1966	1957	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1920 - 1992	
ANNUAL TOTAL	44243		40401			
ANNUAL MEAN	121		110		115	
HIGHEST ANNUAL MEAN					176	
LOWEST ANNUAL MEAN					55.8	
HIGHEST DAILY MEAN	665	Aug 19	622	Jun 6	4300	Sep 21 1938
LOWEST DAILY MEAN	31	Oct 5	20	Sep 21	1.2	Sep 2 1920
ANNUAL SEVEN-DAY MINIMUM	43	Jul 15	26	Sep 19	13	Sep 2 1934
INSTANTANEOUS PEAK FLOW			826	Jun 6	a5160	Sep 21 1938
INSTANTANEOUS PEAK STAGE			5.91	Jun 6	b13.78	Sep 21 1938
INSTANTANEOUS LOW FLOW			d16	Sep 22	c	
10 PERCENT EXCEEDS	199		173		220	
50 PERCENT EXCEEDS	109		99		85	
90 PERCENT EXCEEDS	51		60		37	

a By computation of flow over dam just above gage.

b From floodmarks.

c Practically no flow at times caused by regulation.

d Also occurred Sept. 24.

e Estimated.

CONNECTICUT RIVER BASIN

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01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT

PERIOD OF RECORD.--Water years 1954-55, 1961-62, 1968-69 , October 1991 to September 1992.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
17...	1330	66	316	7.5	9.5	12.5	2.7	9.9	93	100	148
NOV											
25...	1000	169	207	7.3	3.0	5.5	4.6	12.0	95	6500	2500
DEC											
11...	1420	139	269	7.3	13.0	7.0	2.6	12.2	101	180	128
JAN											
07...	1540	106	282	7.7	6.0	4.5	3.5	13.0	101	160	1020
MAR											
24...	1330	128	283	7.3	2.5	5.5	2.1	12.6	99	100	60
APR											
17...	1240	161	248	7.5	4.0	6.5	4.3	12.0	98	35	220
MAY											
27...	1330	76	300	7.9	18.0	16.0	4.8	9.8	100	140	32
JUN											
23...	1300	89	305	7.7	18.0	18.5	6.7	9.5	102	660	56
JUL											
15...	1230	66	336	7.6	22.5	20.0	4.2	8.4	93	1200	650
AUG											
19...	1350	169	198	7.4	25.5	20.5	8.0	8.7	97	3500	420
SEP											
17...	1400	51	403	8.0	30.0	22.0	2.3	9.7	111	920	104

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
17...	92	29	4.8	26	3.7	0	68	56	35	39
NOV										
25...	57	17	3.5	16	3.9	0	48	39	20	26
DEC										
11...	83	21	7.3	8.5	1.4	0	48	39	13	13
JAN										
07...	71	22	4.0	22	3.2	0	55	45	13	22
MAR										
24...	65	20	3.6	24	2.7	0	55	45	24	40
APR										
17...	61	19	3.2	19	2.5	0	50	41	24	29
MAY										
27...	86	27	4.5	25	3.2	0	61	50	29	36
JUN										
23...	89	29	4.1	23	3.3	0	63	52	25	36
JUL										
15...	100	33	4.6	25	3.7	0	58	48	27	35
AUG										
19...	57	18	2.9	15	2.6	0	46	38	16	22
SEP										
17...	120	38	5.1	32	4.8	0	88	72	39	39

CONNECTICUT RIVER BASIN

01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 17...	0.30	13	202	203	3.75	0.050	3.80	0.160	0.64	0.80
NOV 25...	0.20	9.2	144	154	1.88	0.020	1.90	0.290	0.61	0.90
DEC 11...	0.20	4.9	136	194	3.27	0.030	3.30	0.270	0.53	0.80
JAN 07...	0.10	11	158	174	3.36	0.040	3.40	0.490	0.61	1.1
MAR 24...	<0.10	8.2	142	164	1.76	0.140	1.90	--	0.60	--
APR 17...	0.20	7.7	150	157	2.46	0.040	2.50	0.700	0.60	1.3
MAY 27...	0.20	10	186	192	3.53	0.070	3.60	0.120	0.58	0.70
JUN 23...	0.30	11	185	196	4.5	0.510	5.10	0.240	0.86	1.1
JUL 15...	0.20	9.4	212	225	5.47	0.030	5.50	0.080	0.82	0.90
AUG 19...	0.10	7.6	119	142	2.08	0.020	2.10	0.080	0.42	0.50
SEP 17...	0.30	11	240	260	6.08	0.020	6.10	0.060	--	<0.20

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 17...	4.6	0.650	0.620	0.580	--	<1.0	--	<1	--	7
NOV 25...	2.8	0.440	0.340	0.320	<1	<1.0	2	<1	--	6
DEC 11...	4.1	0.340	0.270	0.240	--	<1.0	--	<1	--	<1
JAN 07...	4.5	0.430	0.340	0.320	<1	<1.0	2	<1	11	8
MAR 24...	4.2	0.320	0.280	0.250	--	<1.0	--	<1	3	4
APR 17...	3.8	0.360	0.290	0.250	--	<1.0	--	2	--	4
MAY 27...	4.3	0.500	0.530	0.510	<1	<1.0	1	<1	10	4
JUN 23...	6.2	0.690	0.540	0.550		<1.0	--	1	--	5
JUL 15...	6.4	0.690	0.590	0.540	<1	<1.0	<1	<1	8	4
AUG 19...	2.6	0.370	0.270	0.260	--	<1.0	--	1	--	5
SEP 17...	--	0.840	0.870	0.830	--	<1.0	--	<1	--	6

CONNECTICUT RIVER BASIN

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01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 17...	--	96	--	<1	73	--	<1	--	17	5.2
NOV 25...	510	170	5	<1	79	2	<1	30	4	7.1
DEC 11...	--	33	--	<1	--	--	<1	--	5	4.4
JAN 07...	340	170	2	<1	120	1	<1	30	19	5.1
MAR 24...	--	100	--	<1	92	--	<1	--	14	4.3
APR 17...	--	130	--	<1	110	--	1	--	16	5.0
MAY 27...	530	91	4	<1	120	<1	<1	20	15	5.0
JUN 23...	--	93	--	<1	93	--	1	--	10	7.1
JUL 15...	510	39	17	<1	100	1	1	40	22	5.8
AUG 19...	--	180	--	<1	72	--	<1	--	19	6.9
SEP 17...	--	32	--	7	89	--	1	--	19	5.0

CONNECTICUT RIVER BASIN

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.

WATER-DISCHARGE RECORDS

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

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 measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Infrequent regulation from Beseck Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	30	62	e68	e42	45	88	e42	33	17	53	12
2	21	31	59	e46	e39	e41	76	e40	39	14	51	10
3	19	31	89	43	e35	e39	65	e49	34	12	52	25
4	17	30	166	60	e32	e37	58	e40	22	16	45	107
5	15	29	172	99	e30	e36	52	32	39	17	40	98
6	40	28	140	98	e28	e35	48	29	1350	19	35	77
7	63	27	112	74	e26	46	45	26	1040	17	112	54
8	61	27	97	59	e24	80	42	25	491	14	119	34
9	47	26	88	51	e22	83	38	32	300	17	115	28
10	33	26	98	e48	e21	64	38	31	198	28	121	27
11	28	53	101	e44	e20	181	39	29	136	26	106	38
12	47	83	90	e42	e19	276	39	25	97	23	95	34
13	37	88	81	e40	e18	220	37	23	69	24	47	29
14	31	71	88	73	18	148	e34	21	50	25	41	24
15	27	54	93	118	22	96	e31	19	36	38	66	20
16	37	46	83	96	130	69	e29	20	29	89	e95	17
17	37	40	66	76	155	61	e90	21	25	108	e150	15
18	56	36	e56	e62	93	58	e150	20	21	76	e220	13
19	55	34	e51	e50	59	58	e100	18	19	39	135	12
20	45	33	e48	e44	e50	58	e85	16	39	32	112	12
21	34	35	e45	e37	e46	58	e75	14	41	32	85	10
22	30	73	e43	30	e43	54	e70	12	31	33	62	12
23	32	187	e41	64	e41	55	e80	10	23	31	41	24
24	36	219	e40	208	e39	53	e62	9.0	30	30	28	23
25	36	208	e39	e150	e38	50	e78	8.5	45	32	23	24
26	34	165	e38	e110	79	60	e70	8.5	38	30	21	26
27	33	123	e37	e90	101	201	e60	9.1	45	31	19	34
28	32	94	e36	e65	80	237	e53	8.9	39	40	19	34
29	32	77	54	e56	61	176	e48	8.6	29	61	18	31
30	32	68	101	e50	---	114	e44	7.7	21	69	15	24
31	30	---	e96	e46	---	92	---	10	---	56	14	---
TOTAL	1102	2072	2410	2197	1411	2881	1824	664.3	4409	1096	2155	928
MEAN	35.5	69.1	77.7	70.9	48.7	92.9	60.8	21.4	147	35.4	69.5	30.9
MAX	63	219	172	208	155	276	150	49	1350	108	220	107
MIN	15	26	36	30	18	35	29	7.7	19	12	14	10
CFSM	1.19	2.32	2.61	2.38	1.63	3.12	2.04	.72	4.93	1.19	2.33	1.04
IN.	1.38	2.59	3.01	2.74	1.76	3.60	2.28	.83	5.50	1.37	2.69	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	MEAN	37.5	64.4	75.8	69.3	95.7	90.9	105	64.3	73.0	20.1	27.9	15.2
MAX	130	106	153	144	162	206	284	172	242	61.3	73.6	41.2	
(WY)	1990	1984	1984	1982	1981	1983	1983	1989	1982	1984	1991	1989	
MIN	5.93	29.5	26.1	8.43	46.1	47.8	25.4	16.2	5.20	2.45	2.07	2.83	
(WY)	1987	1985	1990	1981	1987	1981	1985	1986	1988	1987	1981	1981	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1981 - 1992

ANNUAL TOTAL	20624.94	23149.3		
ANNUAL MEAN	56.5	63.2	63.0	
HIGHEST ANNUAL MEAN			95.5	1984
LOWEST ANNUAL MEAN			30.8	1985
HIGHEST DAILY MEAN	445	Aug 20	1350	Jun 6 1982
LOWEST DAILY MEAN	.60	Jul 21	7.7	May 30 1988
ANNUAL SEVEN-DAY MINIMUM	.85	Jul 16	8.6	May 24 1987
INSTANTANEOUS PEAK FLOW			1720	Jun 6 1982
INSTANTANEOUS PEAK STAGE			11.53	Jun 6 1982
INSTANTANEOUS LOW FLOW			7.1	May 31 1964
ANNUAL RUNOFF (CFSM)	1.90	2.12	2.12	
ANNUAL RUNOFF (INCHES)	25.75	28.90	28.74	
10 PERCENT EXCEEDS	117	112	139	
50 PERCENT EXCEEDS	42	40	37	
90 PERCENT EXCEEDS	6.0	18	5.1	

e Estimated

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.--Volume records good except those for periods of estimated 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 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 first and last volume for any day in the table may represent only a portion of a tidal cycle and no time is shown for the last volume because it is always the volume ending at 2400 hours. The last volume and the first volume for the next day may be added together to obtain the total volume for that tidal cycle only if they are either both positive or negative. 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, 71,400 ft³/s Apr. 27, gage height, 18.49 ft.

OCTOBER 1991 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	1320				
2	1246				
3	955 (1830)	-9 (2015)	175		
4	1290				
5	1399				
6	1304				
7	1623				
8	3144				
9	4064				
10	3537				
11	2731				
12	2486				
13	2564				
14	2509				
15	2388				
16	2378				
17	2136				
18	2363				
19	2042				
20	2069				
21	1926				
22	1803				
23	1733				
24	1586				
25	652 (1115)	-9 (1300)	715		
26	625 (1145)	-8 (1400)	696		
27	657 (1230)	-20 (1500)	613		
28	664 (1330)	-80 (1715)	391		
29	67 (0200)	-47 (0545)	424 (1345)	-121 (1815)	388
30	194 (0430)	-23 (0700)	486 (1545)	-46 (1900)	329
31	256 (0345)	-155 (0815)	1175		

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

NOVEMBER 1991 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	293 (0500)	-47 (0830)	758		
2	424 (0730)	-5 (0915)	587 (1930)	-7 (2115)	103
3	443 (0700)	-69 (1045)	543 (2015)	-6 (2200)	48
4	423 (0730)	-114 (1145)	495 (2100)	-21 (2330)	5
5	461 (0815)	-99 (1215)	566 (2230)	-1 (2315)	5
6	485 (0900)	-96 (1300)	555 (2200)	-37	
7	-9 (0100)	512 (0930)	-133 (1345)	558 (2245)	-27
8	-42 (0145)	455 (1015)	-125 (1415)	504 (2315)	-17
9	-72 (0245)	401 (1045)	-135 (1500)	550 (2400)	-2
10	-80 (0330)	416 (1130)	-116 (1545)	549	
11	27 (0115)	-58 (0415)	437 (1245)	-56 (1600)	540
12	88 (0245)	-1 (0345)	597 (1445)	-8 (1630)	493
13	1449				
14	1463				
15	1459				
16	1368				
17	388 (0630)	-3 (0745)	563 (1900)	-15 (2045)	141
18	406 (0630)	-66 (0930)	604 (2000)	-13 (2145)	90
19	455 (0715)	-56 (1015)	742		
20	492 (0745)	-75 (1115)	674 (2215)	0 (2230)	27
21	596 (0900)	-50 (1145)	660 (2230)	-9 (2400)	0
22	536 (0915)	-66 (1230)	917		
23	2632				
24	3619				
25	3882				
26	3331				
27	3078				
28	2689				
29	2276				
30	2004				

DECEMBER 1991 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	1899				
2	1575				
3	548 (0730)	-55 (1100)	1149		
4	2230				
5	2139				
6	1940				
7	1690				
8	839 (1215)	-2 (1300)	768		
9	1455				
10	638 (1300)	-11 (1445)	669		
11	1863				
12	2132				
13	2047				
14	1987				
15	2532				
16	2745				
17	2910				
18	2785				
19	2206				
20	1987				
21	1866				
22	1716				
23	1814				
24	1606				
25	1557				
26	1560				
27	1507				
28	1267				
29	906 (1830)	-1 (1845)	211		
30	1378				
31	1543				

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JANUARY 1992 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	1797				
2	1916				
3	1870				
4	1680				
5	1786				
6	1742				
7	1871				
8	1797				
9	1686				
10	1784				
11	1644				
12	1543				
13	211 (0400)	-2 (0500)	627 (1645)	-2 (1745)	306
14	191 (0345)	-49 (0700)	1090		
15	1788				
16	1913				
17	1813				
18	e1641				
19	e1296				
20	e1037				
21	e1210				
22	e1123				
23	e1080				
24	e1296				
25	e1728				
26	2026				
27	e1728				
28	e1382				
29	e1210				
30	e1210				
31	e1210				

FEBRUARY 1992 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	e1037				
2	505 (0900)	-115 (1245)	558 (2215)	-21	
3	-1 (0015)	469 (0915)	-138 (1330)	531 (2245)	-10
4	-2 (0030)	559 (1015)	-56 (1315)	767	
5	1317 (2330)	-5			
6	-35 (0215)	560 (1115)	-88 (1445)	641 (2400)	-1
7	e1054				
8	e821				
9	e734				
10	110 (0215)	-30 (0500)	425 (1400)	-86 (1800)	249
11	e950				
12	e1037				
13	e950				
14	e778				
15	371 (0630)	-110 (1030)	537 (1945)	-76 (2300)	21
16	e907				
17	524 (0845)	-82 (1215)	618 (2200)	-23 (2400)	0
18	593 (0930)	-87 (1300)	574 (2145)	-66	
19	-54 (0145)	538 (1015)	-102 (1400)	677 (2345)	-3
20	-17 (0145)	690 (1145)	-28 (1400)	635 (2400)	0
21	-47 (0300)	573 (1215)	-60 (1500)	580	
22	24 (0100)	-41 (0345)	587 (1330)	-13 (1530)	565
23	73 (0145)	-30 (0415)	638 (1530)	0 (1615)	429
24	84 (0200)	-94 (0600)	515 (1515)	-36 (1800)	323
25	139 (0300)	-76 (0645)	549 (1630)	-25 (1900)	244
26	201 (0415)	-75 (0745)	918		
27	380 (0645)	-1 (0715)	968		
28	414 (0715)	-5 (0900)	744		
29	1152 (2045)	-55 (2330)	9		

e Estimated

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MARCH 1992 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	382 (0800)	-80 (1130)	498 (2100)	-36 (2330)	8
2	454 (0845)	-122 (1245)	416 (2100)	-95	
3	-12 (0045)	450 (0915)	-106 (1300)	477 (2130)	-58
4	-15 (0100)	518 (1000)	-70 (1315)	515 (2215)	-35
5	-28 (0130)	543 (1030)	-77 (1345)	501 (2245)	-21
6	-45 (0200)	518 (1115)	-62 (1415)	476 (2300)	-20
7	-85 (0245)	547 (1130)	-79 (1445)	588	
8	0 (0015)	-58 (0300)	653 (1345)	-1 (1415)	585
9	18 (0045)	-21 (0300)	1470		
10	1680				
11	2020				
12	4130				
13	5611				
14	5176				
15	3731				
16	2592				
17	2189				
18	1868				
19	1764				
20	1687				
21	1686				
22	8 (0030)	-26 (0245)	659 (1315)	-16 (1515)	573
23	12 (0045)	-64 (0415)	1355		
24	1592				
25	1384				
26	1340				
27	2003				
28	3216				
29	4357				
30	3899				
31	2872				

APRIL 1992 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	2494				
2	2487				
3	2485				
4	2010				
5	1875 (2345)	-2			
6	-35 (0145)	1702 (2400)	0		
7	-94 (0300)	1717			
8	52 (0115)	-35 (0330)	1660		
9	97 (0145)	-80 (0445)	1430		
10	191 (0300)	-65 (0545)	1373		
11	1871				
12	2001				
13	1971				
14	2144				
15	2065				
16	908 (1030)	-6 (1130)	794 (2130)	-84	
17	-10 (0045)	1846 (2245)	-29		
18	-11 (0045)	2093			
19	2285				
20	2270				
21	2276				
22	3255				
23	4296				
24	4869				
25	5335				
26	5863				
27	6127				
28	5827				
29	4924				
30	3879				

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

MAY 1992 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	3426				
2	2806				
3	3019				
4	4649				
5	5158				
6	4215				
7	3821				
8	3108 (2215)	-142			
9	2516				
10	2225				
11	2029				
12	1948				
13	1861				
14	1677				
15	1401				
16	1545				
17	1598				
18	1461				
19	1402				
20	1325				
21	1294				
22	1129				
23	990				
24	721				
25	652				
26	693				
27	936				
28	830				
29	775				
30	854				
31	756				

JUNE 1992 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	1146				
2	2110				
3	2984				
4	2373				
5	1990				
6	3295				
7	3668				
8	3278				
9	3203				
10	2597				
11	2030				
12	1802				
13	1445				
14	1307				
15	1282				
16	1270				
17	1156				
18	1160				
19	1085				
20	1077				
21	621 (1630)	-2 (1715)	313		
22	590 (1700)	-1 (1745)	260		
23	1032				
24	225 (0430)	-71 (0745)	379 (1530)	-139 (2000)	264
25	337 (0530)	-50 (0815)	504 (1645)	-115 (2045)	213
26	450 (0630)	-36 (0915)	451 (1730)	-137 (2145)	132
27	495 (0700)	-92 (1030)	439 (1830)	-168 (2245)	50
28	565 (0800)	-109 (1130)	443 (1915)	-199 (2345)	1
29	590 (0830)	-153 (1230)	431 (2000)	-216	
30	-24 (0100)	588 (0915)	-152 (1315)	491 (2100)	-164

CONNECTICUT RIVER BASIN

01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

JULY 1992 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	-91 (0145)	772 (1015)	-168 (1400)	635 (2200)	-134
2	-172 (0245)	681 (1045)	-275 (1530)	640 (2300)	-52
3	-214 (0330)	696 (1130)	-293 (1615)	632 (2345)	-3
4	-274 (0430)	661 (1215)	-322 (1715)	634	
5	32 (0100)	-268 (0530)	604 (1245)	-369 (1815)	538
6	103 (0145)	-280 (0630)	623 (1400)	-352 (1900)	472
7	244 (0315)	-183 (0715)	575 (1445)	-336 (2000)	361
8	364 (0430)	-171 (0815)	555 (1600)	-312 (2100)	256
9	457 (0515)	-197 (0915)	570 (1645)	-337 (2200)	136
10	586 (0630)	-187 (1030)	534 (1800)	-270 (2230)	72
11	686 (0730)	-167 (1115)	559 (1845)	-312 (2345)	7
12	701 (0800)	-207 (1215)	535 (1945)	-267	
13	-10 (0030)	646 (0830)	-258 (1300)	545 (2030)	-238
14	-46 (0115)	654 (0915)	-234 (1345)	589 (2115)	-145
15	-61 (0130)	691 (1000)	-185 (1430)	579 (2200)	-100
16	-100 (0215)	717 (1100)	-143 (1445)	693 (2315)	-28
17	-84 (0215)	824 (1145)	-75 (1445)	859	
18	7 (0030)	-25 (0230)	849 (1230)	-123 (1545)	633
19	1 (0015)	-145 (0400)	603 (1215)	-219 (1645)	546
20	23 (0045)	-151 (0445)	506 (1230)	-254 (1730)	505
21	74 (0145)	-109 (0515)	596 (1345)	-198 (1800)	495
22	164 (0300)	-79 (0600)	504 (1415)	-201 (1830)	456
23	260 (0400)	-52 (0645)	516 (1445)	-218 (1930)	360
24	351 (0500)	-68 (0800)	484 (1530)	-222 (2030)	270
25	393 (0515)	-125 (0915)	467 (1645)	-251 (2130)	166
26	494 (0615)	-169 (1030)	474 (1730)	-311 (2245)	56
27	559 (0645)	-232 (1130)	486 (1830)	-337 (2345)	1
28	619 (0745)	-237 (1230)	475 (1930)	-318	
29	-21 (0045)	608 (0830)	-261 (1315)	507 (2030)	-249
30	-73 (0130)	618 (0930)	-257 (1400)	578 (2130)	-151
31	-141 (0230)	607 (1000)	-326 (1515)	599 (2230)	-95

AUGUST 1992 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	-179 (0300)	649 (1100)	-261 (1545)	569 (2330)	-16
2	-228 (0400)	590 (1145)	-321 (1645)	636	
3	25 (0045)	-180 (0445)	589 (1230)	-306 (1730)	574
4	91 (0145)	-186 (0545)	575 (1330)	-296 (1830)	475
5	199 (0315)	-114 (0645)	547 (1430)	-253 (1915)	395
6	311 (0430)	-100 (0745)	510 (1545)	-183 (2015)	272
7	370 (0515)	-98 (0900)	474 (1645)	-181 (2115)	167
8	429 (0600)	-131 (1015)	432 (1745)	-216 (2230)	74
9	502 (0645)	-154 (1100)	515 (1900)	-174 (2300)	33
10	602 (0745)	-140 (1145)	550 (1945)	-150 (2345)	5
11	690 (0845)	-118 (1215)	610 (2030)	-95	
12	-8 (0030)	658 (0930)	-103 (1245)	604 (2130)	-85
13	-16 (0100)	653 (0945)	-180 (1345)	533 (2145)	-107
14	-83 (0200)	567 (1000)	-197 (1430)	539 (2215)	-61
15	-103 (0230)	569 (1030)	-208 (1500)	527 (2300)	-42
16	-165 (0315)	501 (1045)	-249 (1545)	506 (2330)	-6
17	-166 (0345)	509 (1130)	-231 (1615)	549	
18	2 (0015)	-130 (0400)	600 (1230)	-148 (1615)	638
19	57 (0130)	-51 (0415)	632 (1315)	-141 (1700)	622
20	158 (0300)	-19 (0445)	596 (1345)	-186 (1800)	473
21	192 (0330)	-52 (0615)	465 (1415)	-243 (1900)	378
22	259 (0415)	-72 (0730)	417 (1515)	-237 (2000)	285
23	319 (0445)	-154 (0845)	440 (1615)	-266 (2130)	176
24	429 (0545)	-176 (1000)	455 (1730)	-282 (2230)	87
25	524 (0645)	-202 (1100)	468 (1815)	-312 (2330)	11
26	585 (0715)	-262 (1200)	537 (1930)	-280	
27	-2 (0015)	652 (0815)	-258 (1300)	569 (2015)	-249
28	-55 (0115)	616 (0900)	-291 (1345)	613 (2115)	-166
29	-163 (0230)	641 (1015)	-251 (1430)	585 (2215)	-83
30	-154 (0245)	567 (1030)	-349 (1545)	602 (2315)	-23
31	-224 (0345)	546 (1115)	-354 (1630)	574	

CONNECTICUT RIVER BASIN

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01193000 CONNECTICUT RIVER NEAR MIDDLETOWN, CT--Continued

SEPTEMBER 1992 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	6 (0030)	-206 (0430)	486 (1200)	-358 (1730)	519
2	46 (0115)	-205 (0545)	469 (1300)	-339 (1815)	480
3	126 (0215)	-181 (0645)	487 (1400)	-277 (1845)	428
4	262 (0400)	-122 (0730)	439 (1500)	-287 (2015)	272
5	285 (0430)	-197 (0845)	456 (1615)	-240 (2100)	207
6	418 (0530)	-171 (0945)	488 (1715)	-236 (2200)	111
7	451 (0615)	-208 (1045)	478 (1815)	-244 (2300)	43
8	511 (0645)	-259 (1145)	489 (1915)	-180 (2330)	5
9	532 (0745)	-219 (1215)	511 (2000)	-175	
10	-3 (0015)	538 (0815)	-235 (1245)	538 (2030)	-164
11	-19 (0045)	557 (0845)	-223 (1315)	530 (2115)	-142
12	-48 (0130)	579 (0930)	-211 (1400)	539 (2145)	-98
13	-75 (0200)	521 (0945)	-277 (1430)	523 (2230)	-67
14	-122 (0230)	477 (1000)	-289 (1515)	553 (2300)	-22
15	-145 (0315)	492 (1045)	-268 (1530)	558 (2345)	-4
16	-163 (0345)	464 (1115)	-287 (1615)	527	
17	3 (0015)	-192 (0445)	431 (1200)	-286 (1700)	506
18	39 (0115)	-171 (0530)	449 (1245)	-289 (1800)	446
19	88 (0200)	-194 (0630)	481 (1400)	-254 (1900)	349
20	162 (0300)	-216 (0745)	400 (1445)	-301 (2000)	271
21	271 (0415)	-209 (0845)	436 (1545)	-293 (2115)	186
22	351 (0500)	-269 (0945)	496 (1700)	-306 (2215)	97
23	495 (0615)	-193 (1030)	475 (1800)	-282 (2315)	32
24	522 (0645)	-301 (1145)	574 (1930)	-246 (2400)	1
25	606 (0730)	-276 (1230)	664 (2030)	-144	
26	-13 (0045)	666 (0830)	-248 (1300)	757 (2130)	-117
27	-36 (0115)	643 (0915)	-293 (1415)	628 (2200)	-90
28	-123 (0230)	541 (1000)	-330 (1500)	594 (2300)	-36
29	-163 (0315)	566 (1100)	-278 (1545)	610	
30	1 (0015)	-135 (0400)	463 (1130)	-315 (1645)	549

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT

LOCATION.--Lat 41°32'30", long 72°33'13", Middlesex County, Hydrologic Unit 01080205, on pier of United Aircraft Corporation (formerly Connecticut Advanced Nuclear Engineering Laboratory, CANEL), 0.8 mi 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 due to the depth and location of the intake pipes and the pumping methods used for the monitoring system. In addition to water-quality monitor record, samples were collected approximately once a month, June 19, 1967 to September 1976. Samples were collected quarterly November 1976 to July 1981. Monthly sampling began again October 1981. 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, 164 microsiemens Sept. 25; minimum, 75 microsiemens April 26, 27.

pH: Maximum, 8.9 units July 2; minimum, 6.7 units Oct. 3-5, Aug. 29, Sept. 4-9, 21-26, 28, 29.

WATER TEMPERATURES: Maximum, 27.0°C July 21, 22, Aug. 28; minimum, 1.0°C March 17.

DISSOLVED OXYGEN: Maximum, 15.0 mg/L March 24; minimum, 7.4 mg/L Sept. 6, 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	COLIFORM, FECAL, UM-MF (COLS./100 ML) (31616)	ENTEROCOCCI, ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT										
25...	1415	103	7.3	20.0	12.0	1.6	9.3	85	130	30
NOV										
18...	1115	115	7.3	8.0	3.0	2.5	12.9	95	1200	235
DEC										
11...	1045	124	6.7	11.0	3.5	1.8	12.9	96	350	80
JAN										
15...	1250	138	7.0	-3.0	2.5	3.6	13.8	101	540	1040
MAR										
13...	1230	102	7.1	1.0	1.0	18	14.2	100	920	400
APR										
20...	0930	109	7.3	10.0	5.0	2.6	12.9	100	640	168
MAY										
11...	1145	98	7.4	20.0	11.5	3.4	10.5	95	220	32
JUN										
19...	0835	130	7.8	20.0	22.0	3.1	9.1	104	K16	K2
JUL										
08...	1215	154	8.8	26.5	21.5	3.3	11.7	131	51	K2
AUG										
19...	0930	146	7.4	24.5	20.0	4.6	7.1	78	4000	105
SEP										
17...	0945	139	7.5	32.0	22.0	2.5	8.2	93	K14	<1

CONNECTICUT RIVER BASIN

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01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 25...	32	10	1.7	6.7	1.3	0	31	25	3.7	6.6
NOV 18...	35	11	1.8	8.4	1.4	0	37	30	11	12
DEC 11...	35	11	1.8	8.9	1.3	0	30	25	11	13
JAN 15...	38	12	2.0	9.5	1.2	0	37	30	12	17
MAR 13...	29	9.5	1.4	6.9	1.2	0	26	21	7.6	11
APR 20...	31	9.8	1.5	6.8	1.1	0	28	23	8.0	11
MAY 11...	32	10	1.6	6.3	1.0	0	28	23	8.0	9.0
JUN 19...	39	12	2.1	9.6	1.3	0	35	29	21	24
JUL 08...	45	14	2.5	11	1.7	2	37	34	12	16
AUG 19...	45	14	2.5	11	1.9	0	41	34	11	15
SEP 17...	42	13	2.4	11	1.8	0	40	33	11	16
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 25...	0.10	6.8	62	75	0.280	0.020	0.300	0.160	0.24	0.40
NOV 18...	0.20	6.3	72	73	0.350	0.040	0.390	0.160	0.24	0.40
DEC 11...	0.10	7.2	85	89	0.450	0.010	0.460	0.170	0.23	0.40
JAN 15...	0.20	6.8	75	95	0.520	0.020	0.540	0.310	0.29	0.60
MAR 13...	0.20	4.8	56	190	--	<0.010	0.330	0.100	0.50	0.60
APR 20...	<0.10	5.3	74	88	0.400	0.010	0.410	0.120	0.28	0.40
MAY 11...	<0.10	4.9	61	61	--	<0.010	0.330	0.120	--	<0.20
JUN 19...	0.20	5.7	75	91	0.500	0.030	0.530	0.050	0.25	0.30
JUL 08...	<0.10	3.4	85	102	0.620	0.040	0.660	0.020	0.58	0.60
AUG 19...	<0.10	5.6	81	102	0.610	0.040	0.650	0.200	0.20	0.40
SEP 17...	0.10	3.6	87	103	0.510	0.020	0.530	0.110	0.19	0.30

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 25...	0.70	0.070	0.050	0.040	<1	<1.0	<1	<1	9	2
NOV 18...	0.79	0.060	0.030	0.040	<1	<1.0	6	<1	--	2
DEC 11...	0.86	0.060	0.030	0.030	<1	<1.0	<1	1	--	2
JAN 15...	1.1	0.080	0.050	0.050	<1	<1.0	2	<1	4	1
MAR 13...	0.93	0.110	0.020	0.030	<1	<1.0	5	<1	3	1
APR 20...	0.81	0.040	0.010	0.020	<1	<1.0	<1	<1	2	1
MAY 11...	--	<0.010	<0.010	0.020	<1	<1.0	<1	<1	2	1
JUN 19...	0.83	0.060	0.040	0.030	<1	<1.0	<1	<1	4	2
JUL 08...	1.3	0.110	0.040	0.040	<1	<1.0	<1	<1	4	2
AUG 19...	1.0	0.100	0.050	0.060	<1	<1.0	<1	<1	7	3
SEP 17...	0.83	0.080	0.060	0.050	<1	<1.0	2	<1	3	3

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 25...	230	100	1	<1	21	2	2	<10	6	5.2
NOV 18...	280	120	<1	<1	19	2	<1	10	<3	4.6
DEC 11...	300	120	<1	<1	27	<1	<1	20	<3	3.9
JAN 15...	510	100	2	<1	28	2	<1	20	12	2.9
MAR 13...	4100	84	6	<1	34	6	<1	20	4	8.5
APR 20...	400	61	1	<1	13	<1	<1	10	10	3.3
MAY 11...	440	84	1	<1	33	<1	<1	<10	7	3.6
JUN 19...	410	95	<1	<1	1	1	<1	10	4	4.0
JUL 08...	410	36	2	<1	<1	2	<1	<10	5	5.5
AUG 19...	550	70	2	<1	10	2	<1	40	6	4.4
SEP 17...	360	28	1	<1	3	1	1	<10	<3	3.7

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	102	95	97	116	111	113	96	90	93	-	-	-
2	102	97	99	118	114	116	97	92	95	-	-	-
3	104	98	101	119	116	118	105	95	98	-	-	-
4	101	98	100	122	119	121	113	101	107	-	-	-
5	104	100	102	122	120	121	-	-	-	-	-	-
6	109	102	106	123	121	122	-	-	-	-	-	-
7	126	108	118	123	119	121	-	-	-	-	-	-
8	123	96	112	124	120	122	-	-	-	-	-	-
9	97	91	95	125	123	124	-	-	-	-	-	-
10	101	91	96	127	125	126	-	-	-	-	-	-
11	102	95	99	126	123	125	-	-	-	-	-	-
12	101	91	97	132	126	128	-	-	-	-	-	-
13	101	91	97	135	127	131	-	-	-	-	-	-
14	93	86	91	128	120	125	-	-	-	-	-	-
15	88	85	86	120	113	117	-	-	-	-	-	-
16	94	85	90	116	113	114	-	-	-	-	-	-
17	95	89	92	117	112	114	-	-	-	-	-	-
18	101	92	97	116	114	115	-	-	-	-	-	-
19	102	96	99	119	111	114	-	-	-	-	-	-
20	100	96	98	119	114	117	-	-	-	-	-	-
21	96	93	94	118	115	116	-	-	-	-	-	-
22	98	95	97	126	115	118	-	-	-	-	-	-
23	101	97	99	127	112	120	-	-	-	-	-	-
24	103	100	102	113	96	103	-	-	-	-	-	-
25	104	101	103	95	86	90	-	-	-	-	-	-
26	110	103	107	97	86	91	-	-	-	-	-	-
27	112	108	110	88	83	86	-	-	-	-	-	-
28	111	109	110	93	86	90	-	-	-	-	-	-
29	113	110	111	93	88	91	-	-	-	-	-	-
30	114	112	113	94	88	90	-	-	-	-	-	-
31	116	111	114	---	---	---	-	-	-	-	-	-
MONTH	126	85	101	135	83	113	113	90	-	-	-	-
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	-	-	-	-	-	-	95	88	91	88	81	85
2	-	-	-	-	-	-	95	88	91	92	83	87
3	-	-	-	-	-	-	97	91	94	93	87	90
4	-	-	-	-	-	-	98	92	95	91	82	86
5	-	-	-	-	-	-	99	94	96	83	80	81
6	-	-	-	-	-	-	100	96	98	89	80	84
7	-	-	-	-	-	-	105	98	101	91	84	87
8	-	-	-	-	-	-	114	104	109	91	84	87
9	-	-	-	-	-	-	115	108	111	96	86	92
10	-	-	-	-	-	-	113	108	110	97	91	93
11	-	-	-	-	-	-	110	106	108	97	92	94
12	-	-	-	-	-	-	112	106	109	98	94	96
13	-	-	-	-	-	-	114	108	110	100	95	98
14	-	-	-	-	-	-	112	104	108	106	99	103
15	-	-	-	-	-	-	105	99	102	110	105	108
16	-	-	-	-	-	-	105	100	103	114	108	111
17	-	-	-	92	85	89	111	103	106	114	111	113
18	-	-	-	96	88	92	116	108	111	115	111	113
19	-	-	-	96	91	94	112	104	108	118	114	116
20	-	-	-	109	93	100	108	101	105	119	117	118
21	-	-	-	119	107	112	107	101	104	119	117	118
22	-	-	-	118	110	113	101	96	99	120	118	119
23	-	-	-	120	114	116	100	97	99	123	119	121
24	-	-	-	138	118	127	100	86	95	124	121	122
25	-	-	-	130	126	128	89	80	84	126	123	124
26	-	-	-	129	120	124	83	75	79	129	124	127
27	-	-	-	138	122	127	77	75	76	134	129	131
28	-	-	-	135	99	118	77	76	77	135	131	134
29	-	-	-	98	80	89	83	77	80	133	129	132
30	---	---	---	96	84	90	85	79	83	133	130	132
31	---	---	---	98	91	96	---	---	---	135	131	134
MONTH	-	-	-	138	80	108	116	75	98	135	80	108

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	139	132	135	140	136	138	156	146	152	148	140	144
2	139	124	132	141	137	139	155	151	154	150	142	146
3	124	111	117	140	137	139	151	146	148	151	143	148
4	113	110	111	141	138	140	149	146	147	152	145	149
5	111	101	107	143	140	141	144	139	143	155	146	149
6	105	89	95	144	142	143	143	137	141	155	148	152
7	103	87	95	146	143	145	141	137	139	153	148	151
8	93	88	91	148	146	147	142	137	140	152	146	150
9	89	85	88	146	143	145	141	134	138	153	148	150
10	91	84	88	145	140	142	143	137	142	155	148	152
11	-	-	-	143	139	141	144	140	143	156	149	153
12	-	-	-	141	139	140	142	130	136	158	151	155
13	102	97	99	140	135	138	132	126	129	157	150	154
14	110	101	105	148	138	144	127	125	126	154	147	151
15	115	107	110	151	146	149	134	124	129	154	147	150
16	123	113	116	151	145	147	138	130	133	153	146	149
17	122	120	121	147	141	145	146	131	139	153	144	148
18	125	119	121	142	131	136	149	144	147	154	144	148
19	126	123	125	133	129	131	149	142	145	152	143	148
20	131	125	128	137	131	134	141	131	137	153	143	148
21	139	129	133	143	136	139	130	125	128	155	144	149
22	138	134	135	145	142	144	130	127	129	153	144	149
23	139	137	138	146	136	141	134	128	131	162	147	155
24	141	137	140	138	131	134	134	130	132	162	154	159
25	144	135	139	138	131	137	137	131	134	164	154	159
26	142	134	138	138	135	136	141	132	139	163	157	160
27	139	132	136	139	136	138	143	137	141	158	151	155
28	139	133	135	142	138	141	145	139	142	154	150	152
29	136	132	134	143	140	142	146	138	144	153	149	151
30	139	134	136	146	140	144	148	142	145	153	149	152
31	---	---	---	149	143	146	148	141	144	---	---	---
MONTH	144	84	120	151	129	141	156	124	139	164	140	151
YEAR	164	75	120									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

Day	February				March				April				May			
	Max	Min	Mean		Max	Min	Mean		Max	Min	Mean		Max	Min	Mean	
1	-	-	-	-	-	-	-	-	7.0	7.0	7.0	7.0	7.0	6.9	7.0	
2	-	-	-	-	-	-	-	-	7.0	7.0	7.0	7.0	7.0	6.9	7.0	
3	-	-	-	-	-	-	-	-	7.0	6.9	7.0	7.0	7.0	6.9	7.0	
4	-	-	-	-	-	-	-	-	7.1	7.1	7.0	7.1	7.1	6.8	7.0	
5	-	-	-	-	-	-	-	-	7.0	6.9	7.0	7.0	7.1	7.0	7.0	
6	-	-	-	-	-	-	-	-	7.1	7.0	7.0	7.0	7.0	6.9	7.0	
7	-	-	-	-	-	-	-	-	7.1	7.0	7.1	7.1	7.1	7.0	7.1	
8	-	-	-	-	-	-	-	-	7.2	7.0	7.1	7.1	7.1	7.0	7.0	
9	-	-	-	-	-	-	-	-	7.1	7.1	7.1	7.1	7.1	7.0	7.1	
10	-	-	-	-	-	-	-	-	7.1	7.0	7.1	7.1	7.1	7.0	7.0	
11	-	-	-	-	-	-	-	-	7.1	7.0	7.0	7.0	7.1	6.9	7.0	
12	-	-	-	-	-	-	-	-	7.1	7.0	7.1	7.1	7.1	6.9	7.0	
13	-	-	-	-	-	-	-	-	7.2	7.0	7.1	7.1	7.1	7.0	7.0	
14	-	-	-	-	-	-	-	-	7.2	7.1	7.2	7.2	7.1	7.0	7.0	
15	-	-	-	-	-	-	-	-	7.2	7.1	7.1	7.1	7.1	7.0	7.1	
16	-	-	-	-	-	-	-	-	7.2	7.1	7.2	7.2	7.2	7.1	7.2	
17	-	-	-	-	7.1	7.0	7.0	7.0	7.2	7.1	7.1	7.1	7.2	7.1	7.2	
18	-	-	-	-	7.1	7.0	7.0	7.0	7.1	7.0	7.1	7.1	7.3	7.1	7.2	
19	-	-	-	-	7.0	7.0	7.0	7.0	7.2	7.0	7.1	7.1	7.3	7.2	7.3	
20	-	-	-	-	7.1	7.0	7.0	7.0	7.2	7.0	7.1	7.1	7.3	7.2	7.3	
21	-	-	-	-	7.1	7.0	7.0	7.0	7.2	7.0	7.1	7.1	7.4	7.2	7.3	
22	-	-	-	-	7.1	7.0	7.1	7.1	7.1	7.0	7.1	7.1	7.4	7.2	7.3	
23	-	-	-	-	7.2	7.1	7.1	7.1	7.1	7.0	7.1	7.1	7.4	7.2	7.3	
24	-	-	-	-	7.1	7.1	7.1	7.0	7.1	7.0	7.0	7.0	7.5	7.2	7.3	
25	-	-	-	-	7.2	7.1	7.1	7.1	7.0	6.9	7.0	7.0	7.5	7.2	7.3	
26	-	-	-	-	7.2	7.1	7.2	7.2	7.0	6.9	6.9	6.9	7.7	7.3	7.4	
27	-	-	-	-	7.2	7.0	7.2	7.2	7.0	6.9	7.0	7.0	7.5	7.3	7.4	
28	-	-	-	-	7.1	7.0	7.0	7.0	7.0	6.9	7.0	7.0	7.7	7.3	7.5	
29	-	-	-	-	7.0	6.9	7.0	7.0	7.0	6.9	7.0	7.0	7.9	7.3	7.6	
30	-	-	-	-	7.1	7.0	7.0	6.9	7.0	6.9	7.0	8.0	7.4	7.4	7.7	
31	-	-	-	-	7.1	7.0	7.0	7.0	---	---	---	---	7.7	7.4	7.5	
Month	-	-	-	-	7.2	6.9	7.1	7.1	7.2	6.9	7.1	7.1	8.0	6.8	7.2	
Day	Max	Min	Mean		Max	Min	Mean		Max	Min	Mean		Max	Min	Mean	
September																
1	7.4	7.2	7.3	7.3	8.8	7.4	8.1	8.1	7.7	7.3	7.4	7.4	7.6	6.9	7.2	
2	7.2	7.0	7.1	7.1	8.9	7.8	8.4	8.4	8.0	7.1	7.4	7.4	7.6	7.0	7.3	
3	7.2	7.0	7.1	7.1	8.8	7.9	8.5	8.5	7.3	7.1	7.2	7.2	7.5	6.8	7.1	
4	7.2	7.1	7.2	7.2	8.1	7.6	7.8	7.8	7.5	7.1	7.3	7.3	7.0	6.7	6.9	
5	7.2	7.1	7.2	7.2	7.9	7.5	7.7	7.7	7.8	7.2	7.5	7.5	7.0	6.7	6.8	
6	7.1	6.9	7.0	7.0	8.5	7.4	7.9	7.9	7.6	7.2	7.4	7.4	6.9	6.7	6.8	
7	6.9	6.9	6.9	6.9	8.8	7.6	8.3	8.3	8.1	7.1	7.5	7.5	6.9	6.7	6.8	
8	7.0	6.9	7.0	7.0	8.7	8.0	8.4	8.4	7.8	7.2	7.4	7.4	6.9	6.7	6.8	
9	7.0	6.8	6.9	6.9	7.8	7.5	7.6	7.6	7.4	7.1	7.3	7.3	7.1	6.7	6.9	
10	6.9	6.9	6.9	6.9	8.2	7.4	7.8	7.8	7.2	7.1	7.2	7.2	7.2	6.8	7.0	
11	-	-	-	-	8.3	7.5	7.9	7.9	7.2	7.0	7.1	7.1	7.1	6.9	7.0	
12	-	-	-	-	8.7	7.5	7.9	7.9	7.1	6.9	7.0	7.0	7.2	6.9	7.0	
13	7.0	6.9	7.0	7.0	8.5	7.4	7.9	7.9	7.0	6.9	7.0	7.0	7.1	6.8	7.0	
14	7.1	7.0	7.0	7.0	8.8	7.8	8.2	8.2	7.0	6.8	6.9	6.9	7.1	6.8	6.9	
15	7.2	6.9	7.1	7.1	8.3	7.5	7.8	7.8	6.9	6.8	6.9	6.9	7.3	6.8	6.9	
16	7.4	7.0	7.1	7.1	7.5	7.3	7.4	7.4	7.0	6.8	6.9	6.9	7.2	6.8	7.0	
17	7.4	7.1	7.2	7.2	7.4	7.2	7.3	7.3	7.0	6.8	6.9	6.9	7.3	6.8	7.0	
18	7.6	7.2	7.3	7.3	7.3	7.1	7.2	7.2	7.0	6.9	6.9	6.9	7.4	6.8	7.0	
19	7.7	7.3	7.5	7.5	7.5	7.2	7.3	7.3	6.9	6.9	6.9	6.9	7.5	6.8	7.1	
20	7.6	7.2	7.3	7.3	8.0	7.2	7.5	7.5	6.9	6.8	6.8	6.8	7.4	6.8	7.0	
21	7.6	7.1	7.3	7.3	8.6	7.5	7.9	7.9	6.9	6.8	6.9	6.9	7.5	6.7	6.9	
22	7.9	7.3	7.6	7.6	8.5	7.5	8.0	8.0	6.9	6.8	6.9	6.9	7.0	6.7	6.8	
23	8.6	7.3	7.8	7.8	7.8	7.3	7.6	7.6	7.0	6.8	6.9	6.9	7.1	6.7	6.9	
24	8.7	7.8	8.1	8.1	8.1	7.1	7.5	7.5	6.9	6.8	6.9	6.9	7.1	6.7	6.9	
25	8.0	7.3	7.6	7.6	7.8	7.1	7.4	7.4	7.1	6.8	6.9	6.9	7.0	6.7	6.9	
26	7.9	7.1	7.4	7.4	7.5	7.2	7.3	7.3	7.2	6.8	7.0	7.0	7.0	6.7	6.9	
27	8.1	7.2	7.6	7.6	7.6	7.1	7.3	7.3	7.1	6.8	7.0	7.0	7.0	6.8	6.9	
28	8.6	7.1	7.7	7.7	7.9	7.2	7.4	7.4	7.0	6.8	6.9	6.9	6.9	6.7	6.8	
29	8.7	7.4	8.1	8.1	8.4	7.3	7.8	7.8	7.1	6.7	6.9	6.9	6.9	6.7	6.8	
30	8.6	7.5	8.0	8.0	8.2	7.5	7.8	7.8	7.1	6.8	6.9	6.9	6.9	6.8	6.9	
31	---	---	---	---	7.7	7.4	7.6	7.6	7.5	6.8	7.0	7.0	---	---	---	
Month	8.7	6.8	7.3	7.3	8.9	7.1	7.8	7.8	8.1	6.7	7.1	7.1	7.6	6.7	6.9	
Year	8.9	6.7	7.2													

CONNECTICUT RIVER BASIN

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

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

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.8	8.5	8.7	9.9	9.6	9.8	11.7	11.5	11.6	-	-	-
2	8.8	8.6	8.7	9.7	9.4	9.6	11.6	11.3	11.4	-	-	-
3	8.6	8.0	8.4	9.6	9.3	9.5	11.4	11.2	11.4	-	-	-
4	8.3	7.7	8.1	9.5	9.3	9.4	11.5	11.1	11.3	-	-	-
5	8.3	8.0	8.2	9.8	9.3	9.5	-	-	-	-	-	-
6	8.4	7.6	8.1	10.0	9.4	9.6	-	-	-	-	-	-
7	8.1	7.9	8.0	10.2	9.7	9.9	-	-	-	-	-	-
8	8.7	7.9	8.2	10.4	9.8	10.1	-	-	-	-	-	-
9	9.4	8.7	9.1	10.7	10.0	10.2	-	-	-	-	-	-
10	9.5	9.3	9.4	10.9	10.3	10.5	-	-	-	-	-	-
11	9.5	9.2	9.3	11.2	10.7	10.9	-	-	-	-	-	-
12	9.3	8.9	9.1	11.1	10.6	10.8	-	-	-	-	-	-
13	9.4	9.0	9.1	11.0	10.6	10.7	-	-	-	-	-	-
14	9.6	9.4	9.4	11.3	10.5	10.9	-	-	-	-	-	-
15	9.8	9.6	9.7	11.4	10.9	11.1	-	-	-	-	-	-
16	9.8	9.7	9.8	11.6	11.0	11.2	-	-	-	-	-	-
17	9.8	9.7	9.7	11.6	11.2	11.3	-	-	-	-	-	-
18	9.8	9.4	9.7	11.5	11.2	11.3	-	-	-	-	-	-
19	9.6	9.4	9.5	11.7	11.1	11.4	-	-	-	-	-	-
20	9.7	9.5	9.6	11.9	11.2	11.6	-	-	-	-	-	-
21	9.7	9.5	9.6	11.7	11.1	11.4	-	-	-	-	-	-
22	9.9	9.6	9.7	11.4	10.8	11.1	-	-	-	-	-	-
23	10.0	9.5	9.7	10.9	10.3	10.6	-	-	-	-	-	-
24	9.8	9.5	9.7	10.9	10.3	10.7	-	-	-	-	-	-
25	9.7	9.3	9.5	11.1	10.8	11.0	-	-	-	-	-	-
26	9.4	8.9	9.1	11.3	10.9	11.1	-	-	-	-	-	-
27	9.1	8.7	9.0	11.7	11.2	11.4	-	-	-	-	-	-
28	9.0	8.8	8.9	11.9	11.7	11.8	-	-	-	-	-	-
29	9.3	9.0	9.2	11.9	11.8	11.8	-	-	-	-	-	-
30	9.5	9.1	9.4	11.8	11.6	11.8	-	-	-	-	-	-
31	9.9	9.5	9.7	---	---	---	-	-	-	-	-	-
MONTH	10.0	7.6	9.1	11.9	9.3	10.7	11.7	11.1	-	-	-	-

01193050 CONNECTICUT RIVER AT MIDDLE HADDAM, CT--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	-	-	-	-	-	-	14.5	13.6	13.9	12.8	11.3	12.1
2	-	-	-	-	-	-	14.2	13.7	14.0	12.1	11.8	11.9
3	-	-	-	-	-	-	14.0	13.7	13.9	12.1	11.1	11.7
4	-	-	-	-	-	-	14.0	13.6	13.8	11.6	11.4	11.5
5	-	-	-	-	-	-	14.1	14.0	14.0	11.9	11.6	11.7
6	-	-	-	-	-	-	14.0	13.6	13.8	11.8	10.5	11.5
7	-	-	-	-	-	-	13.8	13.6	13.7	11.8	11.4	11.6
8	-	-	-	-	-	-	13.6	13.3	13.4	11.7	10.9	11.5
9	-	-	-	-	-	-	13.6	13.1	13.4	11.5	11.0	11.3
10	-	-	-	-	-	-	13.3	12.2	12.7	11.4	11.0	11.2
11	-	-	-	-	-	-	13.3	12.8	13.0	11.1	10.3	11.0
12	-	-	-	-	-	-	13.0	12.8	12.9	10.9	10.2	10.6
13	-	-	-	-	-	-	13.1	12.9	13.0	10.5	10.2	10.4
14	-	-	-	-	-	-	13.4	13.0	13.2	10.5	9.7	10.1
15	-	-	-	-	-	-	13.5	13.2	13.3	10.4	9.6	10.0
16	-	-	-	-	-	-	13.4	13.0	13.2	10.2	9.5	9.8
17	-	-	-	14.7	12.9	13.9	13.2	12.8	13.0	10.2	8.5	9.5
18	-	-	-	14.6	13.6	14.1	13.3	12.7	13.1	10.0	8.4	9.3
19	-	-	-	14.6	14.1	14.3	13.5	13.2	13.3	10.1	8.4	9.5
20	-	-	-	14.6	13.8	14.4	13.6	13.3	13.4	10.3	8.4	9.6
21	-	-	-	14.5	13.7	14.0	13.5	12.9	13.3	10.3	9.2	9.8
22	-	-	-	14.1	13.5	13.8	13.2	12.8	13.0	12.0	9.1	9.7
23	-	-	-	14.8	13.5	13.8	13.0	12.6	12.8	10.6	8.7	9.9
24	-	-	-	15.0	14.5	14.7	12.9	12.3	12.6	10.5	9.2	10.1
25	-	-	-	14.9	14.5	14.7	12.7	12.4	12.6	10.8	9.3	10.1
26	-	-	-	14.5	13.5	14.0	13.3	12.6	12.9	10.5	9.1	10.1
27	-	-	-	13.6	12.7	13.4	13.8	13.3	13.5	10.8	9.9	10.3
28	-	-	-	13.6	12.7	13.2	13.8	13.4	13.7	11.4	10.1	10.8
29	-	-	-	14.2	13.6	13.8	13.7	13.1	13.4	11.9	10.2	11.0
30	---	---	---	14.5	13.3	14.0	13.2	12.6	12.9	12.0	10.5	11.4
31	---	---	---	14.2	13.6	13.9	---	---	---	11.5	10.0	11.0
MONTH	-	-	-	15.0	12.7	14.0	14.5	12.2	13.3	12.8	8.4	10.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	10.9	9.5	10.2	12.2	10.3	11.3	11.6	10.4	11.0	10.8	9.4	10.2
2	10.1	8.5	9.1	12.8	11.0	11.7	12.9	10.3	11.3	10.9	9.9	10.5
3	9.4	7.7	9.1	12.5	11.2	11.9	11.6	10.1	10.7	10.6	8.9	9.7
4	9.6	9.2	9.5	12.3	8.3	10.7	12.0	10.6	11.2	9.2	7.8	8.5
5	9.6	9.3	9.4	13.9	10.4	11.5	12.6	11.0	11.7	8.8	7.8	8.2
6	9.3	8.5	8.9	11.7	10.2	11.0	11.8	10.7	11.3	8.2	7.4	7.8
7	8.6	8.3	8.5	12.3	10.7	11.5	13.0	10.5	11.8	8.7	7.4	8.1
8	8.5	8.3	8.4	12.3	11.1	11.8	12.6	10.8	11.7	8.7	7.7	8.2
9	8.5	8.0	8.3	11.1	9.9	10.3	11.8	10.5	11.2	9.3	7.8	8.4
10	8.3	8.1	8.2	10.7	9.9	10.3	10.8	10.0	10.3	9.8	8.3	8.9
11	-	-	-	10.8	10.0	10.4	10.0	8.9	9.4	9.4	8.5	9.0
12	-	-	-	11.5	9.8	10.4	9.7	8.4	9.1	9.5	8.6	9.1
13	8.2	7.9	8.1	10.7	9.3	10.1	9.7	8.8	9.2	9.4	8.5	8.9
14	8.4	8.0	8.2	11.8	9.9	10.3	9.2	8.5	8.9	9.3	8.6	9.0
15	8.8	8.1	8.4	10.6	8.6	9.9	9.0	8.5	8.7	10.5	8.4	9.1
16	9.1	8.3	8.6	9.9	8.7	9.4	9.0	8.3	8.7	10.3	9.1	9.6
17	9.1	8.2	8.6	9.9	8.4	9.2	8.7	8.1	8.4	10.7	9.3	9.8
18	9.4	8.7	9.1	9.8	8.9	9.3	8.6	8.0	8.3	10.8	9.7	10.2
19	9.7	9.2	9.5	10.6	9.5	9.9	8.7	8.3	8.5	11.3	9.6	10.6
20	9.6	8.7	9.0	11.7	9.6	10.6	8.9	8.3	8.5	10.9	9.5	10.3
21	9.5	8.5	8.9	12.6	11.0	11.5	9.0	8.5	8.8	10.7	8.9	9.6
22	10.0	9.0	9.5	13.2	10.8	11.8	9.2	8.5	8.8	9.7	8.5	9.1
23	11.0	9.1	9.9	12.1	10.9	11.6	9.2	8.6	8.8	9.2	8.2	8.8
24	11.5	10.3	10.7	12.1	9.8	11.2	9.3	8.6	9.0	9.4	8.2	8.8
25	10.6	9.5	10.0	12.2	10.0	11.1	10.0	8.7	9.2	9.2	8.4	8.8
26	10.4	8.5	9.5	12.1	10.9	11.4	10.0	8.9	9.4	9.6	8.4	9.1
27	10.8	9.1	10.0	11.9	10.8	11.3	9.6	8.8	9.2	9.5	8.8	9.1
28	11.6	9.2	10.4	12.5	10.6	11.6	8.9	8.2	8.6	9.0	7.8	8.3
29	12.2	10.3	11.3	13.4	11.6	12.4	9.1	8.0	8.5	8.6	8.0	8.4
30	11.9	10.5	11.2	13.3	9.3	11.8	9.5	8.3	8.8	9.0	8.3	8.5
31	---	---	---	12.3	10.9	11.9	10.3	8.6	9.2	---	---	---
MONTH	12.2	7.7	9.3	13.9	8.3	10.9	13.0	8.0	9.6	11.3	7.4	9.1
YEAR	15.0	7.4	10.6									

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 64.38 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; prior to June 24, 1987, at datum 0.67 ft lower for site and datum then in use.

REMARKS.--Records good except for periods of estimated record, which are fair. Satellite telemetry at this station used for primary stage data. Slight regulation at low flow by ponds upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	77	177	132	e145	164	330	150	287	93	66	35
2	81	81	165	e118	e135	e155	284	150	208	74	50	30
3	74	80	345	e110	e130	e150	252	201	127	62	37	46
4	70	76	635	251	e125	e145	227	183	90	107	32	277
5	64	74	378	359	e120	e140	207	159	162	134	32	132
6	204	68	293	265	e115	e135	192	143	1650	135	28	89
7	330	68	264	218	e110	229	184	132	696	113	25	69
8	189	68	271	187	e107	408	176	124	362	82	23	61
9	131	66	267	177	e104	292	163	157	246	72	149	56
10	107	72	370	198	e100	233	165	148	174	64	169	52
11	97	314	316	e165	e98	770	160	136	138	52	107	75
12	138	379	257	e145	e96	575	168	122	116	43	155	70
13	126	286	253	e130	e94	363	159	126	102	91	88	55
14	104	200	318	310	e92	282	148	143	89	75	80	45
15	96	160	309	372	e90	e230	139	115	78	66	75	42
16	110	152	238	213	542	e200	140	114	72	343	90	36
17	112	131	e137	167	363	e190	326	106	66	193	276	34
18	174	115	e90	e150	251	e180	435	99	62	124	452	32
19	157	112	e63	e140	e215	e190	418	94	57	90	299	30
20	121	107	e100	e130	e195	196	306	85	77	72	159	26
21	105	107	e160	e120	181	e190	252	81	82	59	102	25
22	100	375	e150	e115	165	e185	229	80	69	52	77	27
23	89	887	e140	552	158	e180	247	66	59	48	64	79
24	86	553	e130	1090	e145	e175	207	56	99	60	55	61
25	91	430	e120	436	e140	e170	238	55	349	52	47	45
26	85	304	e115	e320	370	240	260	54	177	43	41	49
27	80	236	e112	e210	357	1100	222	53	233	45	39	89
28	78	215	e110	e190	258	615	191	54	284	41	37	77
29	74	201	166	e175	212	404	174	52	157	35	72	60
30	71	185	316	e165	---	320	160	49	113	37	55	46
31	68	---	211	e155	---	354	---	51	---	39	44	---
TOTAL	3501	6179	6976	7465	5213	9160	6759	3338	6481	2596	3025	1850
MEAN	113	206	225	241	180	295	225	108	216	83.7	97.6	61.7
MAX	330	887	635	1090	542	1100	435	201	1650	343	452	277
MIN	64	66	63	110	90	135	139	49	57	35	23	25
CFSM	1.13	2.06	2.25	2.41	1.80	2.95	2.25	1.08	2.16	.84	.98	.62
IN.	1.30	2.30	2.60	2.78	1.94	3.41	2.51	1.24	2.41	.97	1.13	.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	MEAN	88.5	161	212	248	254	370	341	227	139	64.6	55.4	65.9
MAX	734	551	641	1144	623	797	803	482	801	426	357	834	
(WY)	1956	1956	1973	1979	1973	1936	1983	1989	1982	1938	1955	1938	
MIN	12.4	25.2	41.5	25.2	64.6	170	110	82.6	22.4	8.41	7.50	5.80	
(WY)	1931	1932	1944	1981	1934	1985	1985	1986	1957	1957	1957	1943	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1929 - 1992

ANNUAL TOTAL	66271.5	62543	
ANNUAL MEAN	182	171	185
HIGHEST ANNUAL MEAN			326
LOWEST ANNUAL MEAN			84.9
HIGHEST DAILY MEAN	1230	Mar 4	1650
LOWEST DAILY MEAN	7.1	Jul 22	23
ANNUAL SEVEN-DAY MINIMUM	9.5	Jul 16	30
INSTANTANEOUS PEAK FLOW			2110
INSTANTANEOUS PEAK STAGE			6.44
INSTANTANEOUS LOW FLOW			1.7
ANNUAL RUNOFF (CFSM)	1.82	1.71	1.85
ANNUAL RUNOFF (INCHES)	24.65	23.27	25.17
10 PERCENT EXCEEDS	370	327	403
50 PERCENT EXCEEDS	145	132	117
90 PERCENT EXCEEDS	23	51	18

a From contracted-opening measurement.

b From stage record

c Also occurred on Dec. 20 due to shutoff from ice.

e Estimated.

CONNECTICUT RIVER BASIN

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 September 1990.

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 due to the depth and location of the intake pipes and the pumping methods used for the monitoring system.

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, 257 microsiemens Jan. 1, 1990; 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, Jan. 24, March 13, Sept. 30, 1992.

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, 117 microsiemens Feb. 16; minimum, 49 microsiemens June 6.

pH: Maximum, 8.1 units July 1-3; minimum, 6.2 units Jan. 24, March 13, Sept. 30.

WATER TEMPERATURES: Maximum, 25.0°C July 20, Aug. 27; minimum, 1.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 16.1 mg/L Jan. 26-28; minimum, 4.4 mg/L Aug. 27.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
31...	1415	66	101	7.6	12.5	9.0	0.80	11.4	99	110	K13
NOV											
20...	0930	105	95	7.2	18.0	3.0	0.70	13.9	102	64	20
DEC											
10...	1000	400	83	6.7	9.0	5.0	1.2	12.8	100	92	30
JAN											
27...	1050	206	88	6.6	-1.0	1.0	0.90	15.6	108	K19	22
MAR											
23...	1330	202	92	6.5	2.0	2.0	0.50	13.4	97	<1	<1
APR											
17...	0925	313	87	7.1	4.0	4.5	1.6	12.8	99	440	40
MAY											
26...	1315	55	92	7.5	16.0	14.0	0.50	9.9	96	33	K5
JUN											
23...	1000	59	93	7.8	16.0	13.5	1.4	10.6	102	35	24
JUL											
10...	0850	68	93	7.7	28.5	17.5	1.1	9.5	100	52	43
AUG											
21...	1320	101	89	7.6	26.0	19.0	1.8	9.9	106	80	25
SEP											
08...	1420	62	100	7.7	26.0	20.5	1.5	9.0	100	54	26

CONNECTICUT RIVER BASIN

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01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LILITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 31...	24	6.4	1.9	9.5	2.0	0	18	15	4.1	12	<0.10
NOV 20...	21	5.7	1.7	8.2	1.8	0	14	11	11	14	0.10
DEC 10...	17	4.8	1.3	7.1	1.5	0	10	8	10	11	<0.10
JAN 27...	18	4.9	1.5	7.7	1.7	0	7	6	9.5	12	0.10
MAR 23...	19	5.1	1.5	8.6	1.2	0	10	8	10	12	0.20
APR 17...	18	4.9	1.4	7.1	1.3	0	11	9	9.9	12	<0.10
MAY 26...	21	5.8	1.7	8.1	1.5	0	17	14	8.4	12	<0.10
JUN 23...	21	5.7	1.6	8.7	1.4	0	17	14	9.5	17	<0.10
JUL 10...	22	6.1	1.6	8.6	1.4	0	19	16	7.3	13	<0.10
AUG 21...	21	5.9	1.6	7.5	1.5	0	18	15	7.4	12	<0.10
SEP 08...	22	6.1	1.6	8.5	1.9	0	19	16	7.6	14	<0.10

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT 31...	10	64	68	--	<0.010	0.110	0.020	0.18	0.20	0.31
NOV 20...	9.5	69	58	--	<0.010	0.160	0.010	--	<0.20	--
DEC 10...	9.2	60	71	--	<0.010	0.280	<0.010	--	<0.20	--
JAN 27...	8.5	50	52	--	<0.010	0.390	0.020	--	<0.20	--
MAR 23...	6.7	40	57	--	<0.010	0.330	<0.010	--	<0.20	--
APR 17...	6.3	52	62	--	<0.010	0.310	0.040	0.26	0.30	0.61
MAY 26...	7.6	63	69	--	<0.010	0.270	0.010	0.29	0.30	0.57
JUN 23...	9.7	64	68	--	<0.010	0.180	0.030	--	<0.20	--
JUL 10...	7.6	67	59	--	<0.010	0.160	0.020	0.18	0.20	0.36
AUG 21...	8.5	68	83	0.340	0.020	0.360	0.170	0.23	0.40	0.76
SEP 08...	8.3	62	62	--	<0.010	0.110	0.020	0.18	0.20	0.31

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 31...	<0.010	0.020	<0.010	10	<1	<1.0	<10	<1	8	<1
NOV 20...	<0.010	0.010	<0.010	20	<1	<1.0	1	<1	--	1
DEC 10...	<0.010	0.010	<0.010	40	<1	<1.0	1	<1	--	2
JAN 27...	<0.010	<0.010	<0.010	30	<1	<1.0	<1	<1	<1	<1
MAR 23...	<0.010	<0.010	0.040	20	<1	<1.0	<1	<1	<1	<1
APR 17...	0.070	<0.010	<0.010	30	<1	<1.0	<1	<1	<1	<1
MAY 26...	0.040	0.040	<0.010	<10	<1	<1.0	<1	<1	1	<1
JUN 23...	<0.010	<0.010	0.010	30	<1	<1.0	<1	<1	2	<1
JUL 10...	0.010	<0.010	<0.010	<10	<1	<1.0	<1	<1	2	1
AUG 21...	0.020	0.030	0.040	20	--	<1.0	--	<1	--	1
SEP 08...	0.020	0.020	<0.010	20	<1	<1.0	<1	<1	2	<1

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 31...	320	190	<1	<1	4	2	1	<10	<3	4.5
NOV 20...	220	120	<1	<1	7	3	<1	<10	5	3.4
DEC 10...	280	110	<1	1	13	1	1	30	3	3.8
JAN 27...	160	71	<1	<1	22	<1	<1	<10	7	2.8
MAR 23...	110	64	<1	<1	16	<1	<1	<10	<3	2.3
APR 17...	410	89	1	<1	16	1	<1	10	7	3.7
MAY 26...	410	250	<1	<1	7	<1	<1	<10	5	3.4
JUN 23...	520	400	<1	<1	4	1	<1	<10	6	3.7
JUL 10...	460	300	6	<1	5	<1	<1	<10	5	3.7
AUG 21...	--	300	--	<1	7	--	<1	--	11	4.3
SEP 08...	480	310	<1	<1	4	2	2	<10	4	5.5

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 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	87	85	86	103	102	102	86	85	85	95	91	94
2	90	87	88	103	102	102	87	85	86	93	90	92
3	92	90	91	103	102	103	85	78	81	91	90	91
4	93	91	92	104	102	103	78	77	78	90	83	88
5	94	93	94	103	102	103	-	-	-	87	83	86
6	93	85	88	103	102	102	81	78	79	94	84	85
7	87	84	85	103	101	102	83	81	82	84	83	84
8	85	83	85	101	100	101	84	83	83	85	84	84
9	87	85	86	103	101	102	84	83	84	93	84	87
10	88	87	88	103	95	102	84	80	82	90	86	88
11	89	87	89	95	85	89	84	81	84	91	88	90
12	88	86	87	89	86	88	84	83	83	94	89	92
13	88	87	88	-	-	-	84	82	84	90	89	90
14	89	88	89	90	89	90	83	82	83	90	79	87
15	90	88	89	91	90	91	84	83	84	85	79	84
16	90	88	89	91	90	91	84	84	84	88	85	86
17	90	89	90	92	91	92	87	84	86	91	88	90
18	89	86	87	93	92	93	90	86	88	91	89	90
19	88	86	88	93	91	93	95	88	93	96	90	94
20	88	87	88	94	93	94	95	91	94	97	96	96
21	89	85	87	94	91	94	101	91	95	97	95	96
22	88	86	87	91	80	86	102	96	98	96	95	95
23	92	88	91	80	72	75	98	97	98	97	86	94
24	94	91	93	76	75	76	97	95	95	87	72	78
25	96	93	95	77	76	77	98	94	96	80	72	77
26	100	96	97	80	77	78	99	93	96	82	80	81
27	101	99	100	82	79	81	96	92	94	84	82	83
28	102	98	101	83	81	82	96	92	94	83	82	83
29	103	101	102	84	83	83	94	90	93	84	83	83
30	103	102	103	85	84	85	97	89	92	86	83	84
31	103	102	103	---	---	---	95	91	93	84	84	84
MONTH	103	83	91	104	72	92	102	77	88	97	72	88
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	84	83	84	87	84	86	81	80	81	86	84	85
2	89	83	86	86	85	86	82	81	81	86	84	85
3	90	86	88	86	84	85	82	82	82	86	83	84
4	90	86	89	88	85	86	83	82	83	89	86	88
5	91	87	89	86	86	86	84	83	83	89	87	88
6	95	89	92	87	86	86	86	83	84	88	87	88
7	93	89	92	88	82	86	84	83	84	88	86	87
8	91	89	90	87	82	85	85	83	84	87	85	86
9	94	90	92	-	-	-	85	84	85	86	84	85
10	100	93	97	84	83	84	86	85	85	87	85	86
11	98	93	96	83	73	76	86	84	86	87	86	87
12	100	94	97	78	74	77	86	85	86	87	84	86
13	102	96	100	79	77	79	87	85	86	85	81	84
14	104	94	98	80	79	80	87	85	86	85	82	84
15	107	96	101	81	80	81	86	85	86	87	85	86
16	117	93	102	84	81	83	87	84	86	87	85	86
17	93	85	89	84	83	84	84	80	82	87	86	86
18	86	83	84	84	84	84	82	78	81	-	-	-
19	83	82	83	85	81	84	81	79	80	-	-	-
20	82	82	82	87	84	85	82	80	81	-	-	-
21	83	82	82	87	86	87	82	81	81	-	-	-
22	83	82	83	87	85	86	83	81	82	-	-	-
23	84	83	84	87	84	85	84	82	83	-	-	-
24	84	83	84	88	87	87	84	83	84	-	-	-
25	86	83	85	89	87	88	84	82	84	-	-	-
26	85	79	83	90	81	86	84	83	84	-	-	-
27	85	81	83	81	69	73	84	82	83	-	-	-
28	82	81	82	75	73	75	84	83	84	-	-	-
29	84	82	83	77	75	76	85	84	84	-	-	-
30	---	---	---	79	77	78	85	84	85	-	-	-
31	---	---	---	80	78	79	---	---	---	-	-	-
MONTH	117	79	89	90	69	83	87	78	84	89	81	86

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	-	-	-	85	81	83	97	90	94	106	104	105
2	-	-	-	86	84	85	98	95	96	107	106	107
3	85	84	85	87	85	86	100	96	98	107	82	102
4	86	85	86	85	82	84	100	97	99	91	77	86
5	87	52	79	85	78	82	101	98	100	93	91	92
6	56	49	53	83	79	81	102	100	101	94	92	93
7	64	56	60	84	83	84	103	100	101	95	94	95
8	69	64	66	87	84	85	104	101	103	98	95	97
9	73	69	71	88	85	87	105	73	90	100	97	98
10	75	73	74	91	88	89	87	80	84	101	99	100
11	78	75	76	93	91	92	89	83	87	100	95	98
12	79	78	78	95	92	93	86	81	83	102	98	101
13	80	79	80	95	83	89	92	86	90	104	100	102
14	82	80	81	90	87	89	92	89	91	104	101	104
15	84	82	83	91	77	89	94	91	92	106	102	105
16	85	84	84	80	74	77	95	86	93	106	104	105
17	86	84	85	81	80	81	86	82	84	107	105	106
18	87	85	86	85	81	83	82	76	79	107	105	106
19	89	87	88	89	85	86	82	80	81	109	106	108
20	89	84	87	90	88	89	86	82	84	111	108	109
21	-	-	-	93	90	91	89	86	87	110	108	109
22	-	-	-	94	91	93	92	89	91	111	103	109
23	-	-	-	94	91	93	95	92	94	105	96	101
24	90	80	86	95	91	93	97	95	96	108	103	107
25	80	71	74	96	94	95	100	96	98	109	106	107
26	79	76	78	99	94	96	101	99	100	107	100	104
27	80	71	76	96	94	95	103	101	102	103	96	100
28	77	70	74	98	96	97	-	-	-	102	100	101
29	79	77	78	99	95	97	-	-	-	105	101	103
30	82	79	80	97	96	97	104	101	103	106	104	105
31	---	---	---	97	91	96	105	103	104	---	---	---
MONTH	90	49	78	99	74	89	105	73	93	111	77	102
YEAR	117	49	89									

PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.3	7.0	7.1	7.3	7.0	7.1	7.0	6.9	6.9	6.9	6.9	6.9
2	7.3	7.0	7.1	7.3	7.0	7.1	7.0	6.9	6.9	6.9	6.9	6.9
3	7.3	7.0	7.1	7.3	7.0	7.1	6.9	6.8	6.9	6.9	6.9	6.9
4	7.4	7.0	7.1	7.3	7.0	7.1	6.9	6.8	6.8	6.9	6.8	6.9
5	7.4	6.9	7.1	7.3	7.0	7.1	-	-	-	6.9	6.8	6.9
6	7.0	6.9	7.0	7.2	7.0	7.1	6.9	6.8	6.8	6.9	6.8	6.9
7	7.1	7.0	7.0	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.8	6.9
8	7.2	7.0	7.1	7.2	7.0	7.1	6.9	6.8	6.8	6.9	6.9	6.9
9	7.2	6.9	7.1	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.8	6.9
10	7.3	7.0	7.1	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.9	6.9
11	7.3	7.0	7.1	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.9	6.9
12	7.2	7.0	7.1	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9
13	7.3	7.1	7.1	-	-	-	6.9	6.8	6.9	6.9	6.9	6.9
14	7.3	7.1	7.2	7.0	6.9	6.9	6.9	6.7	6.8	7.0	6.9	6.9
15	7.3	7.1	7.2	7.0	6.9	6.9	6.9	6.8	6.9	7.0	6.9	7.0
16	7.3	7.0	7.2	7.0	6.9	6.9	7.0	6.9	6.9	7.0	6.9	7.0
17	7.3	7.1	7.1	7.1	7.0	7.0	7.0	6.7	6.9	7.1	7.0	7.0
18	7.2	7.0	7.1	7.0	7.0	7.0	6.9	6.9	6.9	7.0	6.9	7.0
19	7.3	7.0	7.1	7.0	6.9	7.0	6.9	6.9	6.9	7.1	7.0	7.0
20	7.3	7.1	7.2	7.1	6.9	7.0	6.9	6.9	6.9	7.0	6.9	7.0
21	7.1	7.0	7.1	7.1	6.8	7.0	6.9	6.9	6.9	7.0	6.9	6.9
22	7.1	7.0	7.0	6.9	6.8	6.9	7.0	6.9	6.9	6.9	6.9	6.9
23	7.2	6.9	7.0	6.9	6.7	6.7	6.9	6.9	6.9	6.9	6.5	6.8
24	7.2	7.0	7.0	6.8	6.7	6.8	6.9	6.9	6.9	6.6	6.2	6.5
25	7.2	6.9	7.0	6.9	6.8	6.8	6.9	6.9	6.9	6.6	6.4	6.5
26	7.3	6.9	7.1	6.9	6.8	6.9	7.0	6.8	6.9	6.8	6.6	6.7
27	7.4	7.0	7.1	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.8	6.8
28	7.4	6.9	7.1	6.9	6.8	6.9	6.9	6.9	6.9	6.9	6.8	6.8
29	7.3	7.1	7.2	6.9	6.8	6.9	6.9	6.8	6.9	6.9	6.8	6.9
30	7.3	7.1	7.2	7.0	6.8	6.9	6.9	6.8	6.9	6.9	6.9	6.9
31	7.3	7.0	7.1	---	---	---	6.9	6.9	6.9	6.9	6.8	6.9
MONTH	7.4	6.9	7.1	7.3	6.7	7.0	7.0	6.7	6.9	7.1	6.2	6.9

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PH (STANDARD UNITS), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

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

CONNECTICUT RIVER BASIN

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	-	-	-	23.0	19.0	20.5	22.0	18.5	19.5	19.5	16.0	17.5
2	-	-	-	22.0	18.0	19.5	22.5	16.5	19.0	19.0	13.5	16.0
3	19.5	14.5	17.0	19.0	16.0	17.5	23.0	17.5	20.0	17.0	15.0	16.0
4	21.0	16.0	18.0	17.0	16.5	16.5	23.5	19.5	21.0	19.0	17.0	18.0
5	17.0	16.0	16.5	18.0	16.5	17.0	23.0	18.0	20.0	19.5	18.0	19.0
6	18.5	16.5	17.5	20.0	17.0	18.5	23.5	16.5	19.5	18.5	17.0	18.0
7	20.5	17.0	18.5	21.0	16.5	18.5	22.5	16.5	19.5	19.0	16.5	17.5
8	20.0	18.5	19.5	21.5	17.0	19.0	21.5	16.5	18.5	20.5	18.0	19.0
9	21.0	18.0	19.5	23.0	18.5	20.5	19.0	17.0	18.0	22.5	19.5	21.0
10	20.5	16.5	18.5	24.0	19.0	21.0	21.5	18.5	19.5	22.5	20.5	21.5
11	20.5	16.0	18.0	23.5	19.5	21.0	23.0	19.0	20.5	21.0	18.0	20.0
12	21.0	16.0	18.5	22.5	18.5	20.5	22.0	19.0	20.5	19.0	15.5	17.0
13	21.5	17.0	19.0	22.5	19.5	20.5	20.5	18.0	19.0	17.5	13.5	15.0
14	22.5	17.5	19.5	23.5	19.0	21.0	19.5	18.0	18.5	18.0	13.0	15.0
15	22.5	18.5	20.0	21.5	18.5	20.5	18.0	17.0	17.0	18.0	13.5	15.5
16	21.5	16.5	18.5	20.5	18.0	19.0	17.0	16.5	17.0	20.0	15.0	17.0
17	22.0	15.5	18.5	21.5	18.5	20.0	17.5	16.5	17.0	21.5	17.0	19.0
18	22.0	16.5	19.0	23.0	20.0	21.5	19.5	17.5	18.0	22.0	18.0	19.5
19	21.0	17.5	19.0	23.5	20.5	21.5	20.5	18.0	19.0	20.5	16.5	19.0
20	20.0	18.5	19.0	25.0	20.5	22.5	20.0	17.5	18.5	18.5	14.0	16.0
21	-	-	-	24.5	20.5	22.5	20.0	15.5	17.5	17.5	13.0	15.0
22	-	-	-	23.5	19.5	21.0	20.5	16.0	18.0	18.5	16.0	17.5
23	-	-	-	19.5	17.0	18.0	22.0	17.5	19.5	18.5	14.0	17.0
24	17.0	15.5	16.0	21.0	16.0	18.5	22.5	17.5	19.5	14.5	11.5	13.0
25	18.5	15.5	17.0	22.5	16.5	19.0	23.5	18.5	21.0	13.5	10.0	12.0
26	20.0	15.5	17.5	19.0	16.5	18.0	24.5	20.0	22.0	14.5	13.0	13.5
27	20.0	17.0	18.5	22.5	18.0	20.0	25.0	21.5	23.0	16.0	14.5	15.5
28	21.0	17.0	19.0	24.0	18.5	20.5	-	-	-	17.0	15.5	16.0
29	21.5	17.5	19.5	24.0	17.0	20.0	-	-	-	16.5	12.5	15.0
30	21.5	18.0	19.5	22.0	19.5	20.5	21.5	17.0	19.0	12.5	9.5	11.0
31	---	---	---	20.0	18.0	19.0	22.0	18.0	19.5	---	---	---
MONTH	22.5	14.5	18.5	25.0	16.0	20.0	25.0	15.5	19.5	22.5	9.5	16.5
YEAR	25.0	1.0	11.0									

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.5	9.2	9.9	8.8	8.3	8.5	9.5	9.0	9.3	13.7	12.9	13.2
2	9.4	8.4	8.9	8.6	8.0	8.3	9.7	9.1	9.5	13.6	13.0	13.3
3	9.0	8.5	8.7	8.8	8.2	8.4	10.2	9.4	9.8	13.4	12.3	12.9
4	9.0	8.2	8.6	9.4	8.5	9.0	10.6	9.4	9.9	12.8	12.0	12.3
5	8.8	7.9	8.3	9.9	9.2	9.6	-	-	-	12.5	11.8	12.2
6	8.5	7.9	8.2	10.5	9.7	10.0	11.7	10.6	11.4	12.8	12.0	12.5
7	9.5	8.4	8.8	10.4	9.6	10.0	11.3	10.6	11.0	12.9	12.2	12.5
8	10.4	9.5	10.0	10.2	9.7	9.9	11.1	10.1	10.7	13.4	12.3	13.0
9	10.3	8.7	9.6	10.4	9.8	10.0	10.3	9.5	10.0	13.5	12.5	13.1
10	9.8	9.0	9.4	10.1	9.7	9.9	10.2	9.5	9.8	13.5	12.5	12.9
11	9.6	8.9	9.2	10.2	8.9	9.7	10.8	10.1	10.5	14.2	12.6	13.6
12	9.3	9.0	9.1	10.7	9.9	10.3	10.9	10.2	10.5	14.6	13.6	14.0
13	9.8	9.2	9.5	-	-	-	10.3	9.3	9.9	14.1	13.1	13.6
14	10.3	9.3	9.8	10.2	9.6	9.9	9.6	8.9	9.3	13.4	10.9	12.6
15	10.7	9.4	10.1	10.6	9.5	10.1	10.4	9.0	9.9	14.4	10.9	12.6
16	9.4	8.8	9.1	9.7	9.2	9.5	11.4	10.4	11.0	15.7	13.9	14.4
17	9.7	9.0	9.4	10.6	9.7	10.3	11.6	11.2	11.4	15.2	13.6	14.7
18	9.4	8.8	9.1	11.0	10.2	10.7	11.7	11.2	11.5	15.2	14.8	14.9
19	9.6	8.8	9.1	10.5	9.6	10.1	11.9	11.5	11.8	15.2	14.8	15.0
20	10.0	8.8	9.5	9.9	8.7	9.4	11.9	11.5	11.7	15.2	14.8	15.0
21	11.1	9.2	10.0	9.2	8.1	8.6	11.7	11.2	11.4	15.3	14.3	15.0
22	10.3	9.4	9.8	8.8	8.0	8.4	11.4	11.1	11.3	15.2	14.9	15.1
23	10.5	9.0	9.8	8.8	7.8	8.4	11.5	10.6	11.0	15.3	13.0	14.5
24	9.7	8.9	9.3	9.0	7.3	8.5	11.4	10.6	11.0	15.4	12.9	13.7
25	8.9	8.2	8.7	9.4	8.5	9.0	11.8	11.1	11.4	16.0	14.9	15.6
26	8.7	8.1	8.4	11.3	9.2	10.3	14.4	11.5	12.7	16.1	15.2	15.8
27	8.5	7.6	8.1	11.8	10.3	11.3	13.6	12.1	12.6	16.1	15.3	15.8
28	8.8	7.7	8.3	11.2	10.4	10.8	12.9	12.4	12.7	16.1	14.8	15.5
29	9.6	8.8	9.3	10.7	10.0	10.4	12.8	12.0	12.4	15.6	14.8	15.0
30	10.0	9.0	9.5	10.4	9.2	10.0	13.0	12.0	12.4	15.1	14.1	14.8
31	9.3	8.6	8.9	---	---	---	13.4	12.8	13.2	15.2	13.9	14.5
MONTH	11.1	7.6	9.2	11.8	7.3	9.6	14.4	8.9	11.0	16.1	10.9	14.0

01193500 SALMON RIVER NEAR EAST HAMPTON, CT--Continued

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	15.0	13.8	14.3	15.4	14.5	15.0	14.7	13.1	13.9	11.5	10.5	11.0
2	15.6	14.8	15.0	15.0	14.4	14.6	14.1	13.0	13.5	11.0	9.3	10.2
3	15.7	14.8	15.1	14.7	14.0	14.4	14.4	13.4	13.8	10.4	9.1	9.7
4	15.7	14.1	15.0	15.2	13.4	14.2	14.8	13.2	13.9	10.8	9.7	10.4
5	15.2	14.0	14.7	14.4	12.2	13.5	14.8	13.1	13.9	12.0	10.7	11.5
6	15.1	14.7	14.9	13.8	12.8	13.3	14.3	12.7	13.5	13.5	11.3	12.2
7	15.3	14.7	14.9	13.7	12.1	13.0	14.2	12.7	13.4	13.4	11.1	12.1
8	15.2	14.5	14.8	12.6	11.8	12.2	13.4	12.1	12.7	12.3	11.3	11.7
9	15.6	14.6	15.2	-	-	-	14.0	12.4	13.1	11.8	9.9	10.9
10	15.7	15.0	15.5	12.2	11.3	11.9	13.4	11.7	12.5	11.5	10.4	10.9
11	15.7	14.6	15.3	11.5	10.1	10.7	13.3	11.8	12.8	11.7	10.0	10.8
12	15.7	14.6	15.4	12.9	11.5	12.3	13.8	13.1	13.4	11.7	10.1	11.0
13	15.9	14.9	15.5	14.1	12.6	13.2	14.8	12.7	13.7	10.8	9.7	10.3
14	15.8	14.8	15.3	14.3	13.0	13.6	14.2	12.2	13.2	10.7	9.4	9.9
15	15.7	14.9	15.3	14.4	13.3	13.8	13.9	11.9	12.8	10.9	9.0	9.8
16	15.3	13.7	14.4	14.9	12.2	13.4	13.9	12.5	13.4	10.6	9.4	10.0
17	15.4	14.0	14.5	13.4	12.3	12.8	13.7	13.1	13.4	11.3	9.1	10.2
18	15.0	13.7	14.3	13.4	12.3	12.8	13.7	12.5	13.1	-	-	-
19	14.0	12.8	13.5	13.5	12.7	13.1	13.1	12.4	12.8	-	-	-
20	14.3	13.2	13.7	14.2	13.0	13.6	12.9	11.7	12.4	-	-	-
21	15.1	13.9	14.4	14.3	12.5	13.3	12.2	11.0	11.6	-	-	-
22	15.3	13.6	14.5	14.2	13.0	13.6	11.4	10.8	11.1	-	-	-
23	14.7	13.3	14.0	14.3	13.7	14.1	11.3	9.8	10.6	-	-	-
24	14.4	13.5	13.9	15.4	13.9	14.6	11.3	10.1	10.6	-	-	-
25	14.9	14.1	14.4	15.8	13.5	14.6	12.0	10.5	11.4	-	-	-
26	14.4	13.4	13.8	14.3	12.8	13.6	12.5	11.6	12.0	-	-	-
27	14.5	13.3	13.9	13.2	12.4	12.8	12.2	10.9	11.6	-	-	-
28	14.8	13.3	14.1	13.2	12.1	12.7	12.3	11.0	11.6	-	-	-
29	15.0	13.2	14.1	13.7	12.4	13.1	12.5	10.7	11.6	-	-	-
30	---	---	---	14.1	12.4	13.2	12.4	10.6	11.4	-	-	-
31	---	---	---	13.8	12.3	12.9	---	---	---	-	-	-
MONTH	15.9	12.8	14.6	15.8	10.1	13.3	14.8	9.8	12.6	13.5	9.0	10.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	-	-	-	8.6	7.4	7.9	8.0	7.5	7.8	5.5	5.0	5.2
2	-	-	-	8.6	7.6	8.0	8.5	7.4	7.9	5.9	5.2	5.5
3	10.6	9.0	9.7	9.1	7.9	8.4	8.3	7.0	7.6	5.7	5.3	5.5
4	9.8	8.8	9.4	9.0	8.1	8.5	7.8	6.9	7.4	5.5	5.2	5.4
5	10.1	8.5	9.7	8.8	8.0	8.3	8.1	7.2	7.6	5.7	5.1	5.5
6	9.9	8.5	9.0	8.4	7.3	8.0	8.4	7.2	7.7	6.0	5.6	5.8
7	9.6	8.0	9.0	8.6	7.5	8.0	8.4	7.3	7.8	6.1	5.6	5.9
8	9.1	8.3	8.7	8.6	7.3	7.9	8.5	7.4	7.8	6.0	5.5	5.8
9	9.1	8.4	8.8	8.0	6.9	7.5	8.0	7.5	7.8	5.9	5.4	5.6
10	9.4	8.7	9.0	7.9	6.8	7.3	7.9	7.3	7.6	5.9	5.5	5.7
11	9.5	8.5	9.0	7.6	6.9	7.2	7.8	7.0	7.4	6.1	5.6	5.9
12	9.8	8.4	9.0	8.0	7.0	7.4	7.8	7.2	7.5	6.6	6.1	6.3
13	9.4	8.2	8.7	7.5	7.0	7.2	8.2	7.6	7.8	6.8	6.4	6.6
14	9.2	8.0	8.6	7.6	6.6	7.2	8.2	7.7	8.0	7.9	6.7	7.0
15	9.2	8.2	8.6	7.5	6.9	7.2	8.6	8.0	8.3	7.7	6.9	7.3
16	9.7	8.4	9.1	8.2	7.4	7.8	8.6	8.2	8.4	7.5	6.8	7.1
17	9.9	8.5	9.2	8.3	7.6	7.9	8.7	8.2	8.5	7.3	6.7	7.0
18	9.7	8.4	9.0	8.0	7.2	7.6	8.6	5.7	7.2	7.4	6.7	7.0
19	9.3	8.5	8.8	8.0	7.3	7.6	7.9	6.8	7.5	7.4	6.7	7.1
20	8.7	7.5	8.3	8.0	7.1	7.5	8.3	7.8	8.0	8.1	7.4	7.7
21	-	-	-	7.9	7.0	7.4	8.8	6.4	7.8	8.3	7.5	7.9
22	-	-	-	8.2	7.3	7.7	7.1	6.5	6.8	8.0	7.3	7.6
23	-	-	-	8.7	7.7	8.3	7.3	6.7	7.0	8.3	7.4	7.8
24	9.4	8.6	8.9	9.0	8.0	8.5	8.0	7.1	7.5	8.9	8.3	8.6
25	9.8	8.8	9.3	8.8	7.7	8.2	8.2	7.5	7.8	9.4	8.6	9.0
26	9.8	8.5	9.1	8.8	7.8	8.3	8.4	5.1	7.2	8.9	8.5	8.7
27	9.4	8.0	8.7	8.2	7.2	7.7	5.1	4.4	4.7	8.7	8.4	8.5
28	8.8	7.8	8.3	8.0	7.1	7.5	-	-	-	8.8	8.3	8.6
29	9.1	7.9	8.4	8.3	7.0	7.5	-	-	-	9.1	8.5	8.8
30	8.6	7.6	8.1	8.0	7.2	7.6	5.4	4.8	5.1	9.9	9.1	9.6
31	---	---	---	8.2	7.5	7.9	5.3	4.7	5.0	---	---	---
MONTH	10.6	7.5	8.9	9.1	6.6	7.8	8.8	4.4	7.4	9.9	5.0	7.0
YEAR	16.1	4.4	10.5									

CONNECTICUT RIVER BASIN

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01193630 SALMON RIVER AT LEESVILLE FISHWAY AT LEESVILLE, CT

LOCATION.--Lat 41°31'01", long 72°28'59", Middlesex County, Hydrologic Unit 01080205, at Connecticut Department of Environmental Protection dam, 0.3 mi 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, 27.5°C July 1; minimum recorded, 3.0°C Nov. 7. Salmon River, maximum, 27.5°C July 1, 20; minimum, 0.0°C on numerous days during winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

TAKEN IN FISHWAY

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

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

TEMPERATURE, WATER, (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

TAKEN IN FISHWAY

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

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

TEMPERATURE, WATER, (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992--Continued

TAKEN IN TAILRACE

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

CONNECTICUT RIVER BASIN

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01193750 CONNECTICUT RIVER AT EAST HADDAM, CT

LOCATION.--Lat 41°27'05", long 72°27'55", Middlesex County, Hydrologic Unit 01080205, at bridge on State Highway 82, at East Haddam, 1.1 mi 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 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED SATUR- ATION) (MG/L) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
NOV 18...	0950	116	7.2	5.0	2.5	2.0	12.7	92	820	108	35
JAN 15...	1030	123	6.9	-3.0	1.5	3.0	13.4	96	96	180	34
MAR 13...	1000	107	7.3	-0.5	1.5	16	13.5	97	1200	500	30
MAY 11...	0935	94	7.3	19.0	11.5	3.4	10.1	92	68	K5	29
JUL 08...	1010	148	9.0	26.0	22.5	2.6	11.5	131	29	K1	45

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 18...	11	1.8	8.1	1.4	0	37	30	10	12	0.20
JAN 15...	11	1.7	8.0	1.2	0	31	25	11	14	0.20
MAR 13...	9.7	1.5	7.5	1.2	0	27	22	8.0	11	0.20
MAY 11...	9.3	1.4	6.1	1.0	0	26	21	7.7	8.9	<0.10
JUL 08...	14	2.4	11	1.5	3	34	33	11	16	0.10

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
NOV 18...	6.4	84	80	0.330	0.040	0.370	0.160	0.24	0.40	0.77
JAN 15...	6.8	65	88	0.480	0.010	0.490	0.260	0.24	0.50	0.99
MAR 13...	4.9	65	194	--	<0.010	0.350	0.100	0.70	0.80	1.2
MAY 11...	4.9	66	70	--	<0.010	0.300	0.100	0.20	0.30	0.60
JUL 08...	2.2	83	93	0.420	0.030	0.450	0.020	0.58	0.60	1.0

CONNECTICUT RIVER BASIN

01193750 CONNECTICUT RIVER AT EAST HADDAM, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
NOV 18...	0.060	0.030	0.040	<1	<1.0	1	<1	--	1	260
JAN 15...	0.060	0.050	0.040	<1	<1.0	<1	<1	4	1	620
MAR 13...	0.210	<0.010	0.030	<1	<1.0	6	<1	3	1	4200
MAY 11...	<0.010	<0.010	0.020	<1	<1.0	<1	<1	2	1	390
JUL 08...	0.080	0.020	0.020	<1	<1.0	<1	<1	3	2	330

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 18...	110	1	<1	16	<0.10	2	<1	20	<3	4.6
JAN 15...	94	2	<1	28	0.10	2	<1	20	6	3.5
MAR 13...	83	6	<1	33	<0.10	6	<1	30	5	8.5
MAY 11...	82	<1	<1	29	0.10	<1	<1	<10	9	3.6
JUL 08...	29	2	<1	--	<0.20	2	<1	<10	3	5.8

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: Aug. 2 to 12, Sept. 15 to 24.

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, 6.58 ft, Oct. 31; minimum, -2.82 ft, Dec. 21.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
Maximum high tide	Elevation	6.58	4.60	4.92	4.11	4.09	4.17	3.61	3.71	3.81	3.61	3.75	3.56
	Date	31	24	3	4	8	23	8	31	6	1	28	26
	Time	0445	1145	0830	1015	0045	0115	0145	2145	0430	0000	2400	0945
Minimum Low tide	Elevation	-1.81	-2.32	-2.82	-2.78	-2.47	-2.40	-2.14	-1.88	-1.85	-1.88	-1.97	-2.17
	Date	9	25	21	25	9	18	14	16	4	31	30	29
	Time	1715	1915	1600	0830	2000	0330	0130	0345	0900	0515	0545	1845

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.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.7	5.6	9.2	e6.3	6.7	13	7.4	28	2.5	1.7	2.6
2	1.8	1.9	5.5	e7.4	e5.8	e6.2	11	7.5	13	2.0	1.5	2.1
3	1.6	1.8	19	e6.7	e5.3	e5.7	9.8	8.5	6.2	1.6	1.2	15
4	1.6	1.7	35	15	e5.0	e5.4	8.5	7.1	4.2	5.7	3.0	50
5	1.5	1.7	20	24	e4.7	e5.1	7.7	6.1	11	5.8	3.8	18
6	3.7	1.6	15	16	e4.5	e4.8	7.1	5.6	157	4.4	1.9	10
7	3.8	1.6	13	12	e4.3	8.7	6.6	5.3	59	3.2	1.3	7.7
8	2.5	1.6	e12	9.7	e4.1	20	6.4	5.3	28	2.2	1.0	11
9	2.0	1.5	e11	9.2	e4.0	12	5.9	11	20	3.8	25	9.1
10	1.8	1.5	23	11	e3.8	9.8	6.6	7.7	13	3.3	38	5.9
11	e1.6	7.1	19	9.1	e3.7	24	6.5	6.2	8.9	2.1	13	12
12	e2.4	9.9	13	7.1	e3.6	21	6.5	5.3	6.8	1.6	17	7.3
13	e2.2	5.6	16	e6.4	e3.5	14	5.7	5.3	5.5	1.6	6.5	5.0
14	e2.1	4.1	24	14	e3.4	11	5.3	4.9	4.7	1.5	6.9	4.2
15	e2.0	3.5	19	16	e4.0	9.1	5.0	4.3	4.1	1.8	6.1	3.6
16	e2.1	3.2	14	10	36	7.6	5.1	5.5	3.5	28	25	3.3
17	e2.2	2.8	11	e8.0	21	e7.2	19	5.6	3.1	10	60	3.0
18	4.4	2.6	e9.5	e7.0	14	e6.8	21	4.6	2.9	4.6	61	2.7
19	3.2	2.5	e7.5	e6.4	12	e6.6	26	4.1	2.7	3.4	32	2.6
20	2.4	2.5	e6.2	e6.0	11	e7.2	18	3.6	3.0	2.5	18	2.3
21	2.1	2.6	7.5	e5.7	9.0	e7.6	14	3.3	3.0	1.9	11	2.1
22	2.0	9.5	8.0	e5.4	7.9	e7.2	15	2.9	2.5	1.6	7.5	2.1
23	1.9	40	e7.0	16	7.5	e8.4	20	2.6	2.2	1.7	5.5	3.7
24	1.8	23	e6.3	39	7.3	e7.6	14	2.2	8.4	3.1	4.5	2.8
25	1.7	17	e5.7	19	7.2	e7.0	15	2.1	8.7	1.9	4.0	2.1
26	1.7	11	e5.2	13	18	13	13	2.2	4.1	1.5	3.5	5.0
27	1.7	8.3	e4.9	11	14	42	11	2.3	6.4	2.6	3.1	9.5
28	1.7	7.2	e4.7	e9.0	10	24	9.6	2.1	5.2	2.2	3.0	6.9
29	1.6	6.4	7.6	e8.3	9.0	17	8.5	1.9	3.1	1.5	12	4.4
30	1.6	5.9	21	e7.4	---	13	7.8	1.8	2.4	1.3	5.2	3.1
31	1.5	---	15	e6.8	---	15	---	3.0	---	1.2	3.4	---
TOTAL	66.0	191.3	391.2	350.8	249.9	360.7	328.6	147.3	430.6	112.1	386.6	219.1
MEAN	2.13	6.38	12.6	11.3	8.62	11.6	11.0	4.75	14.4	3.62	12.5	7.30
MAX	4.4	40	35	39	36	42	26	11	157	28	61	50
MIN	1.5	1.5	4.7	5.4	3.4	4.8	5.0	1.8	2.2	1.2	1.0	2.1
CFSM	.37	1.12	2.22	1.99	1.52	2.05	1.93	.84	2.53	.64	2.20	1.29
IN.	.43	1.25	2.56	2.30	1.64	2.36	2.15	.96	2.82	.73	2.53	1.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1992, BY WATER YEAR (WY)

	MEAN	6.18	12.3	13.8	13.5	14.9	14.6	17.9	11.0	12.0	3.46	4.50	2.36
MAX	24.0	26.7	36.8	25.2	29.3	25.4	38.9	21.3	57.1	13.4	12.5	7.30	
(WY)	1991	1984	1984	1982	1984	1983	1983	1989	1982	1984	1992	1992	
MIN	.80	3.27	4.69	4.80	7.42	8.57	6.16	3.55	1.29	.49	.65	.24	
(WY)	1987	1988	1983	1985	1985	1990	1985	1986	1988	1991	1987	1983	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1982 - 1992

ANNUAL TOTAL	3077.69	3234.2	
ANNUAL MEAN	8.43	8.84	10.1
HIGHEST ANNUAL MEAN			16.8
LOWEST ANNUAL MEAN			5.84
HIGHEST DAILY MEAN	104	Jun 6	576
LOWEST DAILY MEAN	.00	Jul 22	.00
ANNUAL SEVEN-DAY MINIMUM	.25	Jul 16	.14
INSTANTANEOUS PEAK FLOW		220	Jun 6
INSTANTANEOUS PEAK STAGE		4.04	Jun 6
INSTANTANEOUS LOW FLOW		c.95	Aug 8
ANNUAL RUNOFF (CFSM)	1.48	1.56	1.77
ANNUAL RUNOFF (INCHES)	20.16	21.18	24.06
10 PERCENT EXCEEDS	18	19	22
50 PERCENT EXCEEDS	5.9	5.9	6.4
90 PERCENT EXCEEDS	.60	1.8	.72

- a From contracted-opening measurement
- b From digital recorder and floodmarks in well
- c Also occurred Aug. 9.
- d Also occurred July 23, 1991
- e Estimated

HAMMONASSET RIVER BASIN

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. Datum of gage is 288.10 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.7	7.6	11	e8.5	12	22	10	25	3.3	2.8	2.5
2	4.2	3.8	6.8	e8.5	e7.7	e12	20	11	23	2.9	2.5	2.3
3	3.8	4.5	19	e8.0	e7.1	e11	18	9.4	15	2.7	2.3	8.3
4	3.5	3.3	31	15	e6.6	e11	17	7.6	8.2	4.1	2.5	48
5	3.3	3.0	19	24	e6.2	e10	16	7.7	15	4.6	2.4	37
6	6.2	3.0	14	18	e5.9	e10	15	8.4	240	4.2	2.2	19
7	8.5	3.0	e13	14	e5.6	19	14	6.4	99	3.6	1.9	11
8	7.4	3.0	e12	11	e5.3	29	14	6.2	46	3.2	1.6	8.0
9	6.7	3.0	e11	e9.5	e5.1	21	13	7.7	33	3.3	14	6.7
10	6.4	2.9	20	12	e4.9	16	12	7.3	22	3.1	33	5.8
11	6.3	6.4	23	10	e4.7	46	24	6.8	9.8	2.7	17	7.0
12	7.1	13	21	8.0	e4.6	39	25	7.1	7.1	2.3	14	7.4
13	6.6	11	21	e7.2	e4.5	28	19	6.1	5.9	2.2	8.2	8.1
14	6.0	8.9	26	13	e4.4	e19	16	6.8	5.1	2.0	7.4	7.8
15	6.0	7.1	24	16	e4.3	e17	11	6.8	4.5	4.7	6.7	5.7
16	6.4	6.1	20	12	28	e15	9.3	6.6	4.2	30	15	4.0
17	6.8	5.3	16	9.3	23	e14	17	6.2	3.9	17	34	3.6
18	8.5	4.8	e12	e7.5	16	e14	29	5.6	3.7	8.9	39	3.3
19	7.9	4.5	e10	e6.0	14	e13	30	4.8	3.6	5.6	24	3.0
20	6.6	4.3	e8.5	e6.1	12	17	24	4.4	3.7	4.2	13	2.7
21	6.0	4.4	e7.5	e5.8	11	16	18	4.1	3.8	3.6	8.0	2.6
22	5.8	11	e7.0	e5.5	9.5	15	16	3.8	3.4	3.1	6.0	2.6
23	5.6	31	e6.5	14	9.6	16	16	3.5	3.1	3.0	4.9	3.5
24	5.6	28	e6.1	42	10	15	17	3.2	5.4	3.2	4.3	3.7
25	5.3	25	e5.8	30	11	14	20	3.1	7.2	3.0	3.8	3.2
26	5.1	18	e5.6	24	20	18	19	3.1	5.1	2.7	3.5	4.1
27	4.4	13	e5.4	e19	20	51	13	3.0	5.5	3.0	3.2	6.8
28	3.6	13	e5.2	e16	17	36	8.7	3.0	5.0	2.9	3.0	6.0
29	3.2	12	8.1	e13	14	26	7.7	2.9	4.1	2.6	2.8	4.9
30	3.3	10	19	e11	---	22	7.7	2.7	3.6	2.7	2.8	4.1
31	3.6	---	16	e9.5	---	23	---	4.6	---	2.6	2.7	---
TOTAL	174.7	270.0	427.1	415.9	300.5	625	508.4	179.9	623.9	147.0	288.5	242.7
MEAN	5.64	9.00	13.8	13.4	10.4	20.2	16.9	5.80	20.8	4.74	9.31	8.09
MAX	8.5	31	31	42	28	51	30	11	240	30	39	48
MIN	3.2	2.9	5.2	5.5	4.3	10	7.7	2.7	3.1	2.0	1.6	2.3
CFSM	.95	1.52	2.33	2.27	1.75	3.41	2.86	.98	3.51	.80	1.57	1.37
IN.	1.10	1.70	2.68	2.61	1.89	3.93	3.19	1.13	3.92	.92	1.81	1.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	8.98	17.2	15.6	15.7	15.9	19.3	21.4	12.6
MAX	26.2	29.8	35.6	25.0	26.2	29.5	47.3	29.5
(WY)	1991	1989	1987	1988	1985	1986	1987	1988
MIN	1.90	5.93	4.61	5.32	9.77	13.0	8.32	4.67
(WY)	1987	1988	1990	1985	1987	1990	1985	1986

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1985 - 1992

ANNUAL TOTAL	4025.78	4203.6	
ANNUAL MEAN	11.0	11.5	
HIGHEST ANNUAL MEAN			12.5
LOWEST ANNUAL MEAN			16.8
HIGHEST DAILY MEAN	77	Jan 17	240
LOWEST DAILY MEAN	.07	Jul 15	1.6
ANNUAL SEVEN-DAY MINIMUM	.10	Jul 11	2.2
INSTANTANEOUS PEAK FLOW			340
INSTANTANEOUS PEAK STAGE			3.42
INSTANTANEOUS LOW FLOW			.78
ANNUAL RUNOFF (CFSM)	1.86	1.94	2.11
ANNUAL RUNOFF (INCHES)	25.30	26.41	28.63
10 PERCENT EXCEEDS	24	23	28
50 PERCENT EXCEEDS	7.5	7.4	7.8
90 PERCENT EXCEEDS	.48	3.0	.82

e Estimated

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	22	20	25	23	40	29	91	19	19	10
2	14	12	21	e18	23	22	37	30	36	17	13	10
3	13	15	48	e17	22	e21	33	40	21	18	12	16
4	13	13	89	28	21	e20	31	31	17	31	15	23
5	12	12	45	37	21	e20	29	28	52	22	36	14
6	35	11	34	26	20	e19	27	26	724	25	15	12
7	29	11	31	23	e19	28	26	23	313	20	12	11
8	18	11	30	21	e18	40	25	23	93	17	11	11
9	15	11	29	20	e18	29	24	27	62	18	30	10
10	14	13	36	22	e17	27	24	23	48	15	21	12
11	13	25	31	20	e16	115	24	22	40	14	16	16
12	18	31	27	18	e16	72	25	21	38	14	13	12
13	13	21	29	e17	15	42	23	21	35	26	12	10
14	12	17	35	44	16	35	22	20	32	16	15	9.8
15	15	16	35	55	20	31	21	18	31	20	13	9.7
16	42	15	27	28	101	28	23	24	28	93	18	9.5
17	28	14	24	22	42	27	53	22	27	29	36	9.5
18	42	13	e22	e20	26	26	65	19	25	20	134	9.3
19	24	13	e21	e18	24	28	58	18	25	17	48	9.0
20	18	13	e20	e17	23	28	39	17	28	16	24	8.7
21	16	15	23	e16	21	27	33	16	28	15	19	8.7
22	15	65	23	e15	20	26	33	15	23	14	17	10
23	15	181	22	40	19	27	33	15	22	16	15	23
24	14	73	22	212	19	26	33	14	44	17	14	12
25	14	47	20	58	21	25	61	14	52	13	14	9.7
26	14	34	19	33	60	32	47	14	27	13	13	16
27	13	36	e18	27	50	161	37	14	27	16	13	17
28	13	22	e17	25	33	75	33	13	25	13	12	13
29	13	21	25	24	29	47	31	13	21	13	14	10
30	17	22	40	23	---	39	30	12	20	15	11	9.4
31	13	---	25	25	---	46	---	24	---	17	11	---
TOTAL	559	815	910	989	775	1212	1020	646	2055	629	666	361.3
MEAN	18.0	27.2	29.4	31.9	26.7	39.1	34.0	20.8	68.5	20.3	21.5	12.0
MAX	42	181	89	212	101	161	65	40	724	93	134	23
MIN	12	11	17	15	15	19	21	12	17	13	11	8.7
CFSM	1.04	1.56	1.69	1.83	1.54	2.25	1.95	1.20	3.94	1.17	1.23	.69
IN.	1.20	1.74	1.95	2.11	1.66	2.59	2.18	1.38	4.39	1.34	1.42	.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	40.8	43.5	29.9	31.2	36.3
MAX	89.9	57.8	50.5	46.2	51.3
(WY)	1990	1991	1990	1991	1992
MIN	10.2	27.2	20.5	17.0	19.5
(WY)	1989	1992	1989	1989	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	10514.8	10637.3	
ANNUAL MEAN	28.8	29.1	35.9
HIGHEST ANNUAL MEAN			42.5
LOWEST ANNUAL MEAN			29.1
HIGHEST DAILY MEAN	192	Mar 4	724
LOWEST DAILY MEAN	6.2	Jul 21	8.7
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 15	9.2
INSTANTANEOUS PEAK FLOW			876
INSTANTANEOUS PEAK STAGE			9.74
INSTANTANEOUS LOW FLOW			88.6
ANNUAL RUNOFF (CFSM)	1.66	1.67	2.06
ANNUAL RUNOFF (INCHES)	22.48	22.74	28.04
10 PERCENT EXCEEDS	49	44	59
50 PERCENT EXCEEDS	23	21	24
90 PERCENT EXCEEDS	9.2	12	11

a Also occurred Sept. 21, 22.

e Estimated

QUINNIPIAC RIVER BASIN

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
30...	1430	94	324	7.6	19.0	9.0	1.2	5.9	51	2000	212
NOV											
13...	1305	78	261	7.4	6.5	3.5	9.0	12.1	91	1100	220
DEC											
13...	1430	165	256	7.4	11.0	7.5	2.1	10.9	91	150	200
JAN											
16...	0945	175	228	7.1	-1.0	1.0	4.8	14.1	100	840	580
MAR											
10...	1400	135	276	7.6	9.0	7.0	2.6	11.6	96	7000	1200
APR											
22...	1300	165	251	7.6	14.0	12.5	1.9	9.7	91	K19	K5
MAY											
12...	0945	88	288	7.6	21.0	13.0	1.6	8.9	84	92	K6
JUN											
22...	1330	105	285	7.6	14.0	15.0	2.8	8.5	85	130	K9
JUL											
20...	1400	75	282	7.7	28.0	19.5	2.3	8.4	91	900	120
AUG											
04...	1350	65	322	7.6	27.5	17.0	2.7	8.1	84	620	28
SEP											
18...	1220	54	386	7.5	30.0	18.5	3.4	8.0	86	500	K18

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
30...	110	35	5.1	22	3.0	0	99	81	22	37
NOV										
13...	81	26	3.8	20	2.4	0	68	56	20	32
DEC										
13...	83	27	3.8	17	1.7	0	69	57	22	33
JAN										
16...	69	22	3.5	19	1.6	0	65	53	12	29
MAR										
10...	84	27	4.0	19	1.6	0	76	62	19	34
APR										
22...	76	24	3.8	16	1.9	0	69	57	18	29
MAY										
12...	99	32	4.7	20	1.9	0	83	68	19	32
JUN										
22...	99	32	4.6	18	1.9	0	78	64	17	32
JUL										
20...	100	33	4.7	18	1.9	0	89	73	17	31
AUG										
04...	110	37	5.1	20	2.5	0	99	81	19	35
SEP										
18...	120	39	5.3	27	3.7	0	102	84	25	39

QUINNIPIAC RIVER BASIN

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01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 30...	0.20	15	194	209	3.35	0.050	3.40	0.170	0.23	0.40
NOV 13...	0.10	11	174	174	1.84	0.060	1.90	0.200	0.50	0.70
DEC 13...	0.30	13	163	181	1.48	0.020	1.50	0.350	0.25	0.60
JAN 16...	<0.10	11	136	147	1.46	0.040	1.50	0.510	0.39	0.90
MAR 10...	<0.10	9.6	154	175	1.95	0.050	2.00	0.450	0.45	0.90
APR 22...	0.10	8.8	154	153	1.68	0.020	1.70	0.060	0.24	0.30
MAY 12...	0.10	9.4	165	--	2.78	0.020	2.80	0.040	0.26	0.30
JUN 22...	0.20	14	174	178	2.68	0.020	2.70	0.050	0.25	0.30
JUL 20...	0.10	13	174	187	2.68	0.020	2.70	0.040	0.26	0.30
AUG 04...	0.20	13	192	207	3.29	0.010	3.30	0.030	0.37	0.40
SEP 18...	0.20	14	226	241	--	<0.010	5.00	0.040	0.56	0.60

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 30...	3.8	0.450	0.430	0.390	<1	<1.0	<1	<1	10	2
NOV 13...	2.6	0.270	0.250	0.210	<1	<1.0	2	<1	--	3
DEC 13...	2.1	0.170	0.140	0.150	<1	<1.0	<1	<1	--	2
JAN 16...	2.4	0.190	0.180	0.160	<1	<1.0	<1	<1	3	<1
MAR 10...	2.9	0.260	0.170	0.190	<1	<1.0	2	<1	3	2
APR 22...	2.0	0.160	0.140	0.120	<1	<1.0	<1	1	2	3
MAY 12...	3.1	0.310	0.300	0.300	<1	<1.0	<1	<1	2	2
JUN 22...	3.0	0.280	0.290	0.250	<1	<1.0	<1	<1	3	3
JUL 20...	3.0	0.370	0.310	0.310	<1	<1.0	<1	<1	3	2
AUG 04...	3.7	0.470	0.440	0.440	<1	<1.0	2	<1	4	2
SEP 18...	5.6	0.780	0.630	0.640	<1	<1.0	2	<1	4	3

QUINNIPIAC RIVER BASIN

01196222 QUINNIPIAC RIVER NEAR MERIDEN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 30...	200	85	1	<1	39	2	<1	10	11	3.9
NOV 13...	590	150	<1	<1	52	3	2	30	38	5.8
DEC 13...	330	130	<1	<1	82	2	1	40	14	3.0
JAN 16...	370	97	1	<1	81	<1	2	30	24	3.9
MAR 10...	290	92	<1	<1	100	1	<1	30	14	5.6
APR 22...	280	100	1	<1	84	1	1	20	17	3.6
MAY 12...	390	96	<1	<1	120	<1	1	20	15	3.6
JUN 22...	390	100	<1	<1	58	2	2	20	15	3.6
JUL 20...	360	90	<1	<1	69	1	<1	20	13	3.2
AUG 04...	430	58	2	<1	58	2	2	50	54	3.6
SEP 18...	540	42	2	<1	56	2	2	110	70	3.9

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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.

REMARKS.--Records good except for periods of estimated record, which are fair. Satellite telemetry at this station used for primary stage data. Flow regulated by Wolcott Reservoir, Broad Brook Reservoir, and by mills upstream. Diversion from Wolcott Reservoir for municipal supply of New Britain and diversion into the basin from Merimere and Elmore Reservoirs for municipal supply of Meriden.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	102	179	176	e172	182	301	175	418	160	207	98
2	127	102	172	e155	e165	176	267	175	299	140	122	99
3	121	102	353	e150	e157	171	241	220	165	131	99	231
4	118	102	618	206	e150	168	222	192	122	189	97	e300
5	114	99	388	266	e145	162	210	169	259	184	105	e170
6	251	98	274	218	e140	158	196	158	4260	201	104	e130
7	240	95	244	185	e135	200	189	149	3040	171	89	e120
8	166	98	232	168	e130	266	187	145	1230	139	85	e110
9	133	96	223	170	e125	222	174	177	638	135	311	e100
10	120	95	299	183	e120	195	177	163	449	128	222	e125
11	123	188	257	172	e118	783	176	150	356	118	137	e170
12	173	252	215	151	e115	642	176	138	301	110	158	e130
13	133	197	221	e140	e112	344	171	131	271	117	104	e110
14	114	151	264	280	e110	282	162	131	243	122	113	e100
15	117	132	260	368	162	247	158	121	220	180	107	e98
16	217	127	215	232	597	218	162	131	207	450	145	e96
17	256	115	188	171	367	206	307	143	198	275	259	e94
18	279	109	e175	e150	223	203	414	126	181	171	748	e92
19	222	106	e160	e140	198	206	399	117	175	140	547	90
20	163	105	e150	e130	191	213	309	110	196	123	250	86
21	141	116	162	e125	178	207	250	105	193	113	184	86
22	130	407	170	e120	165	198	227	102	176	107	155	92
23	125	968	165	393	161	198	228	97	160	104	138	134
24	120	663	164	1120	162	194	208	93	244	119	129	109
25	117	389	152	608	171	188	288	90	638	107	122	93
26	116	279	140	310	376	236	281	91	289	98	118	131
27	114	232	136	239	363	937	235	92	279	110	114	*162
28	112	214	133	220	255	712	210	91	249	106	113	134
29	106	194	231	e205	216	387	192	88	183	96	116	108
30	104	185	319	e190	---	293	181	85	164	149	109	95
31	105	---	238	e180	---	313	---	110	---	170	103	---
TOTAL	4612	6118	7097	7521	5679	9107	6898	4065	15803	4663	5410	3693
MEAN	149	204	229	243	196	294	230	131	527	150	175	123
MAX	279	968	618	1120	597	937	414	220	4260	450	748	300
MIN	104	95	133	120	110	158	158	85	122	96	85	86

MEAN	130	183	225	251	271	379	359	249	189	117	109	112
MAX	554	658	564	890	611	792	1169	756	920	357	411	563
(WY)	1956	1956	1984	1979	1970	1953	1983	1989	1982	1972	1955	1938
MIN	45.5	47.6	57.9	52.0	101	164	107	88.1	61.4	37.5	27.1	41.7
(WY)	1931	1966	1966	1966	1934	1985	1966	1941	1957	1966	1966	1986

ANNUAL TOTAL	76054		80666			
ANNUAL MEAN	208		220		214	
HIGHEST ANNUAL MEAN					357	1984
LOWEST ANNUAL MEAN					84.6	1966
HIGHEST DAILY MEAN	1350	Aug 19	4260	Jun 6	7210	Jun 6 1982
LOWEST DAILY MEAN	53	Jul 21	85	May 30	9.0	Nov 2 1930
ANNUAL SEVEN-DAY MINIMUM	55	Jul 16	90	May 24	16	Aug 28 1966
INSTANTANEOUS PEAK FLOW			5250	Jun 6	8200	Jun 6 1982
INSTANTANEOUS PEAK STAGE			12.46	Jun 6	14.02	Jun 6 1982
INSTANTANEOUS LOW FLOW			84	May 31	8.0	Nov 2 1930
10 PERCENT EXCEEDS	346		312		415	
50 PERCENT EXCEEDS	172		168		149	
90 PERCENT EXCEEDS	74		102		60	

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
30...	1250	101	354	8.0	19.0	11.0	2.1	11.3	101	620	58
NOV											
13...	1120	191	285	7.7	8.5	4.0	4.3	12.8	97	3500	920
DEC											
13...	1220	212	301	7.7	11.0	7.5	1.9	11.8	99	5000	285
JAN											
16...	1120	228	285	7.4	-1.0	2.0	8.5	15.0	109	980	1420
MAR											
10...	1045	188	313	7.5	10.0	7.5	3.7	12.0	100	2600	280
APR											
22...	1030	223	270	7.6	14.0	11.5	3.6	10.6	96	39000	7900
MAY											
12...	1130	137	318	8.1	20.0	15.0	2.0	11.4	112	160	K3
JUN											
22...	1050	174	324	7.8	15.5	17.5	4.6	8.8	92	150	K15
JUL											
20...	1150	121	295	7.8	30.0	21.5	3.4	8.4	95	210	54
AUG											
04...	1000	90	323	7.9	26.5	19.0	3.4	7.8	84	230	35
SEP											
18...	1015	89	382	7.7	29.0	20.0	3.5	8.6	95	430	29

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
30...	120	37	6.5	24	3.2	0	112	92	23	43
NOV										
13...	100	28	8.5	19	2.6	0	88	72	20	29
DEC										
13...	93	29	5.0	22	2.0	0	82	67	24	40
JAN										
16...	78	24	4.3	21	1.7	0	75	61	11	33
MAR										
10...	93	29	5.1	23	1.9	0	85	70	20	42
APR										
22...	81	25	4.5	18	1.9	0	80	66	18	33
MAY										
12...	110	33	5.9	23	2.1	0	98	80	21	37
JUN										
22...	110	34	5.7	21	2.5	0	98	80	21	36
JUL										
20...	97	30	5.3	20	2.3	0	88	72	19	32
AUG										
04...	110	34	5.8	22	2.8	0	95	78	21	37
SEP										
18...	120	38	6.6	26	3.4	0	110	90	24	41

QUINNIPIAC RIVER BASIN

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01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 30...	0.30	14	215	227	3.23	0.070	3.30	0.130	0.37	0.50
NOV 13...	0.20	10	189	182	2.25	0.050	2.30	0.230	0.47	0.70
DEC 13...	0.30	13	194	195	1.94	0.060	2.00	0.540	1.8	2.3
JAN 16...	0.10	10	159	168	1.47	0.030	1.50	0.520	0.38	0.90
MAR 10...	<0.10	8.9	179	192	2.33	0.070	2.40	0.300	1.5	1.8
APR 22...	0.20	8.4	158	180	1.46	0.040	1.50	0.580	0.62	1.2
MAY 12...	0.20	8.5	210	204	2.20	0.100	2.30	0.250	0.35	0.60
JUN 22...	0.20	14	193	205	2.72	0.080	2.80	0.150	0.25	0.40
JUL 20...	0.20	11	177	191	2.24	0.060	2.30	0.070	0.33	0.40
AUG 04...	0.20	12	187	214	3.05	0.050	3.10	0.070	0.33	0.40
SEP 18...	0.30	11	226	249	4.06	0.040	4.10	0.020	0.48	0.50

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 30...	3.8	0.530	0.500	0.500	<1	<1.0	4	<1	7	4
NOV 13...	3.0	0.340	0.300	0.260	<1	<1.0	2	<1	--	4
DEC 13...	4.3	0.280	0.190	0.230	<1	<1.0	<1	<1	--	4
JAN 16...	2.4	0.290	0.190	0.190	<1	<1.0	1	<1	7	3
MAR 10...	4.2	0.300	0.200	0.210	<1	<1.0	<1	2	9	3
APR 22...	2.7	0.390	0.320	0.290	<1	<1.0	1	<1	5	2
MAY 12...	2.9	0.240	0.170	0.220	<1	<1.0	<1	<1	5	3
JUN 22...	3.2	0.310	0.240	0.280	<1	<1.0	1	<1	10	4
JUL 20...	2.7	0.510	0.450	0.420	<1	<1.0	<1	<1	9	5
AUG 04...	3.5	0.520	0.370	0.410	<1	<1.0	3	<1	9	4
SEP 18...	4.6	0.600	0.440	0.460	<1	<1.0	19	<1	7	5

QUINNIPIAC RIVER BASIN

01196500 QUINNIPIAC RIVER AT WALLINGFORD, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 30...	340	42	3	<1	89	5	6	20	12	4.0
NOV 13...	440	70	1	<1	12	2	2	30	8	5.4
DEC 13...	380	120	<1	1	97	3	2	40	11	5.2
JAN 16...	530	83	2	<1	89	2	1	20	11	3.9
MAR 10...	420	56	2	<1	140	5	2	20	13	3.7
APR 22...	440	88	2	<1	120	2	2	20	25	4.9
MAY 12...	510	44	1	<1	110	2	2	<10	10	4.2
JUN 22...	530	26	2	<1	90	3	3	10	10	4.2
JUL 20...	520	69	3	<1	75	4	3	20	8	4.7
AUG 04...	590	27	3	<1	83	3	3	50	48	3.2
SEP 18...	590	18	2	<1	75	6	7	20	17	4.2

QUINNIPIAC RIVER BASIN

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01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT

LOCATION.--Lat 41°23'24", long 72°52'19", New Haven County, Hydrologic Unit 01100004, at bridge on U.S. Highway 5, at North Haven, 2.3 mi downstream from Wharton Brook and 0.9 mi upstream from Watermans Brook.

DRAINAGE AREA.--128 mi².

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

REMARKS.--Stream tidal affected.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT											
30...	1100	394	7.5	19.0	10.0	1.9	7.8	68	860	224	120
NOV											
13...	1000	313	7.6	7.5	4.0	4.8	11.6	88	3400	960	100
DEC											
13...	1015	320	7.5	11.5	7.5	2.0	10.3	86	1100	680	93
JAN											
16...	1320	299	7.3	<-5.0	2.5	8.7	13.2	97	1100	1580	83
MAR											
10...	0920	328	7.4	10.0	7.5	3.2	10.0	84	220	240	93
APR											
22...	0850	300	7.5	14.0	11.5	4.0	8.7	79	18000	3700	88
MAY											
12...	1230	340	7.6	20.0	14.5	3.4	8.6	84	110	K12	110
JUN											
22...	0930	344	7.6	15.5	17.0	7.0	6.8	71	420	70	110
JUL											
20...	0905	317	7.5	28.5	20.0	4.8	6.2	68	580	145	100
AUG											
04...	0840	296	7.6	26.5	19.0	3.4	6.5	70	320	80	110
SEP											
18...	0850	404	7.6	29.0	20.0	4.0	5.9	65	270	65	120

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT										
30...	38	6.6	29	3.3	0	113	93	24	36	0.30
NOV										
13...	32	5.3	23	3.1	0	86	70	23	32	0.20
DEC										
13...	29	5.1	24	2.1	0	89	73	26	40	0.30
JAN										
16...	26	4.5	23	1.8	0	77	63	14	35	0.20
MAR										
10...	29	5.1	26	2.3	0	89	73	24	41	<0.10
APR										
22...	27	4.9	20	1.8	0	86	70	22	36	0.20
MAY										
12...	34	6.0	26	2.3	0	101	83	23	39	0.20
JUN										
22...	35	6.1	24	2.6	0	101	83	23	40	0.30
JUL										
20...	31	5.6	25	2.4	0	100	82	21	35	0.20
AUG										
04...	34	5.9	23	3.3	0	87	71	23	38	0.30
SEP										
18...	36	6.4	29	3.5	0	112	92	28	42	0.40

QUINNIPIAC RIVER BASIN

01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT 30...	14	232	253	4.04	0.060	4.10	0.160	2.3	2.5	6.6
NOV 13...	10	187	218	2.95	0.050	3.00	0.310	2.0	2.3	5.3
DEC 13...	13	197	186	1.65	0.050	1.70	0.510	0.29	0.80	2.5
JAN 16...	10	167	174	1.96	0.040	2.00	0.660	2.1	2.8	4.8
MAR 10...	9.4	176	226	1.74	0.060	1.80	0.470	0.43	0.90	2.7
APR 22...	8.7	167	202	2.12	0.080	2.20	0.750	2.3	3.0	5.2
MAY 12...	8.3	213	232	2.53	0.070	2.60	0.170	2.2	2.4	5.0
JUN 22...	14	202	217	3.03	0.070	3.10	0.170	1.6	1.8	4.9
JUL 20...	12	193	237	2.83	0.070	2.90	0.130	2.8	2.9	5.8
AUG 04...	12	218	197	3.62	0.080	3.70	0.150	0.65	0.80	4.5
SEP 18...	11	234	415	4.40	0.100	4.50	0.310	5.5	5.8	10

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
OCT 30...	0.510	0.450	0.420	<1	<1.0	1	<1	15	5	300
NOV 13...	0.400	0.350	0.300	<1	<1.0	3	<1	--	4	440
DEC 13...	0.230	0.210	0.210	<1	<1.0	1	1	--	4	450
JAN 16...	0.320	0.220	0.220	<1	<1.0	2	<1	10	4	590
MAR 10...	0.240	0.170	0.170	<1	<1.0	4	<1	7	4	580
APR 22...	0.390	0.290	0.270	<1	<1.0	7	1	9	3	600
MAY 12...	0.230	0.180	0.220	<1	<1.0	4	<1	9	3	650
JUN 22...	0.380	0.320	0.290	<1	<1.0	11	1	26	4	750
JUL 20...	0.610	0.510	0.460	<1	<1.0	22	<1	13	4	760
AUG 04...	0.550	0.470	0.440	<1	<1.0	4	<1	10	5	530
SEP 18...	0.690	0.500	0.510	<1	<1.0	14	<1	8	5	500

QUINNIPIAC RIVER BASIN

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01196530 QUINNIPIAC RIVER AT NORTH HAVEN, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 30...	69	2	1	78	<0.10	6	4	<10	8	6.5
NOV 13...	100	1	<1	65	<0.10	5	3	20	11	6.6
DEC 13...	83	<1	<1	94	0.10	5	3	40	12	3.3
JAN 16...	77	3	<1	82	0.20	3	3	30	15	5.8
MAR 10...	45	4	<1	130	<0.10	5	3	20	14	3.5
APR 22...	76	2	<1	97	0.20	5	3	20	12	6.7
MAY 12...	49	2	<1	100	<0.10	3	3	20	11	7.0
JUN 22...	51	3	<1	95	<0.10	8	4	20	11	6.8
JUL 20...	32	4	<1	110	<0.10	6	4	20	12	8.1
AUG 04...	21	3	<1	86	<0.10	6	5	40	30	5.1
SEP 18...	26	2	<1	100	<0.10	6	5	20	21	9.4

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.

01196620 MILL RIVER NEAR HAMDEN, CT

LOCATION.--Lat 41°25'15", long 72°54'12", New Haven County, Hydrologic Unit 01100004, 150 ft downstream from 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	16	32	32	e31	34	73	35	174	29	41	22
2	18	16	30	31	e29	e32	66	35	54	25	22	20
3	17	16	86	e30	e27	e31	58	46	32	26	18	70
4	16	15	148	46	e26	e30	55	38	25	44	19	113
5	16	15	72	53	e25	e29	51	35	96	36	18	37
6	50	15	57	40	e23	e28	47	32	1390	39	15	26
7	35	15	52	35	e22	45	46	31	406	30	14	22
8	22	15	51	32	e21	59	44	32	194	24	13	20
9	19	14	48	33	e20	42	42	43	134	25	96	19
10	17	15	73	38	e19	39	43	35	101	22	72	20
11	17	34	53	33	e18	233	42	32	83	20	33	27
12	23	38	45	28	e17	120	41	29	72	19	28	20
13	19	26	51	e27	e17	79	38	28	63	19	20	17
14	16	21	61	75	e16	65	36	27	56	17	24	15
15	21	18	53	70	29	57	35	25	51	50	22	15
16	55	18	43	41	170	49	38	31	45	139	35	15
17	37	16	38	e37	66	48	82	29	42	42	61	14
18	49	15	e35	e33	44	47	79	26	40	30	216	14
19	31	16	e33	e30	41	50	78	24	39	24	86	13
20	24	15	e31	e28	39	47	57	22	42	21	46	13
21	21	16	36	e26	35	46	49	21	39	19	34	13
22	20	77	36	e24	33	44	49	20	34	17	29	15
23	19	211	35	94	33	45	48	19	32	19	25	22
24	19	94	34	263	32	41	43	18	59	21	30	15
25	18	67	30	85	35	42	51	18	116	18	39	13
26	18	48	28	57	89	63	46	18	52	17	31	31
27	18	40	e26	46	66	279	42	19	57	21	30	33
28	16	37	e25	e42	48	125	39	18	45	17	30	27
29	15	35	48	e39	42	83	37	17	34	17	32	19
30	15	33	72	e36	---	71	36	16	31	28	28	15
31	16	---	42	e33	---	84	---	48	---	41	26	---
TOTAL	716	1027	1504	1517	1113	2087	1491	867	3638	916	1233	735
MEAN	23.1	34.2	48.5	48.9	38.4	67.3	49.7	28.0	121	29.5	39.8	24.5
MAX	55	211	148	263	170	279	82	48	1390	139	216	113
MIN	15	14	25	24	16	28	35	16	25	17	13	13
CFSM	.94	1.40	1.98	2.00	1.57	2.75	2.03	1.14	4.95	1.21	1.62	1.00
IN.	1.09	1.56	2.28	2.30	1.69	3.17	2.26	1.32	5.52	1.39	1.87	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1992, BY WATER YEAR (WY)

	MEAN	25.7	39.3	52.6	59.9	62.0	84.4	98.3	63.9	69.9	20.8	22.1	13.4
MAX	123	99.1	192	258	108	183	317	169	411	58.2	70.0	29.0	
(WY)	1990	1990	1984	1979	1984	1983	1983	1989	1982	1984	1989	1989	
MIN	4.91	9.72	12.8	8.96	16.5	38.0	20.9	18.9	9.58	5.81	3.11	3.68	
(WY)	1987	1982	1983	1981	1980	1985	1985	1986	1988	1987	1981	1986	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1979 - 1992

ANNUAL TOTAL	15711.1	16844	
ANNUAL MEAN	43.0	46.0	50.9
HIGHEST ANNUAL MEAN			85.1
LOWEST ANNUAL MEAN			18.7
HIGHEST DAILY MEAN	417	Mar 4	1390
LOWEST DAILY MEAN	4.1	Jul 21	13
ANNUAL SEVEN-DAY MINIMUM	4.8	Jul 16	14
INSTANTANEOUS PEAK FLOW			2350
INSTANTANEOUS PEAK STAGE			5.93
INSTANTANEOUS LOW FLOW			1.3
ANNUAL RUNOFF (CFSM)	1.76	1.88	2.08
ANNUAL RUNOFF (INCHES)	23.86	25.58	28.22
10 PERCENT EXCEEDS	80	73	102
50 PERCENT EXCEEDS	34	33	27
90 PERCENT EXCEEDS	9.4	16	6.5

a from contracted-opening measurement 0.7 miles downstream.

b from outside floodmarks at the gage.

c Also occurred Aug. 9, Sept. 19-22, 25, 26

e Estimated

HOUSATONIC RIVER BASIN

01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA

LOCATION.--Lat 42°04'29", long 73°20'02", Berkshire County, Hydrologic Unit 01100005, 2.5 miles downstream of Soda creek, 3.1 miles upstream of Konkapot River

DRAINAGE AREA.--465 mi².

PERIOD OF RECORD.--October 1991 to September 1992.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
23...	1050	1150	268	8.0	20.0	9.0	2.0	10.6	92	80	27
NOV											
19...	1015	620	273	8.0	12.5	1.5	1.4	13.2	94	700	108
DEC											
12...	1015	1200	259	7.5	8.0	2.5	3.5	12.9	96	21	26
JAN											
14...	1025	580	345	7.7	11.0	2.0	3.0	13.0	100	32	K14
MAR											
11...	1050	1450	237	7.7	13.0	4.0	26	11.8	95	2400	210
APR											
16...	0930	770	262	8.6	7.0	7.0	1.5	11.6	96	230	71
MAY											
20...	0945	580	308	8.0	23.0	15.0	4.0	8.4	84	96	K15
JUN											
10...	0945	800	225	8.0	17.0	18.5	11	7.8	85	88	60
JUL											
14...	0900	420	352	8.1	24.5	20.0	2.6	6.8	77	90	80
AUG											
20...	1020	650	314	8.1	18.0	18.0	9.1	8.5	91	400	20
SEP											
10...	1010	860	378	8.1	25.0	21.5	4.7	7.5	86	120	K11

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
23...	120	31	9.5	12	1.2	0	126	103	13	20	0.10
NOV											
19...	120	31	9.5	13	1.4	0	133	111	15	16	<0.10
DEC											
12...	110	28	8.6	11	1.1	0	114	93	15	19	0.20
JAN											
14...	180	44	16	8.9	1.7	0	160	131	20	18	0.10
MAR											
11...	93	24	8.0	12	1.3	0	103	84	14	19	<0.10
APR											
16...	110	28	9.0	11	1.2	0	122	102	13	19	0.10
MAY											
20...	130	35	11	14	1.3	0	150	123	18	22	<0.10
JUN											
10...	95	25	8.0	9.6	1.0	0	108	89	9.0	16	0.20
JUL											
14...	140	36	13	18	1.9	0	133	109	18	25	<0.10
AUG											
20...	120	31	11	17	1.7	0	138	113	16	26	0.10
SEP											
10...	140	36	13	22	2.3	0	164	134	19	31	0.10

HOUSATONIC RIVER BASIN

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01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 23...	3.9	144	157	--	<0.010	0.300	0.040	0.26	0.30	0.60	0.050
NOV 19...	3.9	155	163	0.410	0.010	0.420	0.030	0.37	0.40	0.82	0.040
DEC 12...	4.3	156	168	0.360	0.010	0.370	0.020	--	<0.20	--	0.030
JAN 14...	4.4	200	204	0.990	0.010	1.00	0.010	--	<0.20	--	0.030
MAR 11...	3.2	126	212	0.450	0.020	0.470	0.180	0.32	0.50	0.97	0.120
APR 16...	1.7	153	139	--	<0.010	0.320	0.030	0.27	0.30	0.62	0.020
MAY 20...	2.6	171	189	0.470	0.020	0.490	0.090	0.31	0.40	0.89	0.070
JUN 10...	3.9	122	133	0.310	0.020	0.330	0.070	0.53	0.60	0.93	0.140
JUL 14...	2.3	199	205	0.910	0.020	0.930	0.030	0.37	0.40	1.3	0.050
AUG 20...	4.3	173	239	0.720	0.020	0.740	0.040	0.46	0.50	1.2	0.110
SEP 10...	3.2	209	243	--	<0.010	0.820	0.040	0.56	0.60	1.4	0.050

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 23...	<0.010	0.020	<1.0	<1	9	62	2	31	9	7	3.8
NOV 19...	0.020	0.020	<1.0	<1	<1	62	<1	30	<1	16	3.7
DEC 12...	<0.010	0.020	<1.0	<1	1	49	<1	21	<1	<3	3.2
JAN 14...	<0.010	0.010	<1.0	<1	<1	21	<1	15	<1	14	3.4
MAR 11...	0.010	0.040	<1.0	<1	1	70	<1	36	<1	15	5.7
APR 16...	<0.010	<0.010	<1.0	<1	1	34	<1	32	<1	<3	3.5
MAY 20...	0.040	0.030	<1.0	<1	<1	56	<1	40	<1	3	3.9
JUN 10...	0.040	0.040	<1.0	<1	1	70	<1	13	<1	10	6.5
JUL 14...	0.020	0.040	<1.0	<1	2	25	<1	52	<1	14	3.6
AUG 20...	0.020	0.040	<1.0	<1	1	59	<1	19	<1	10	6.4
SEP 10...	0.010	0.040	<1.0	<1	3	28	<1	64	<1	6	3.8

HOUSATONIC RIVER BASIN

01198990 FALLS VILLAGE RESERVOIR AT FALLS VILLAGE, CT

LOCATION.--Lat 41°57'45", long 73°22'18", Litchfield County, Hydrologic Unit 01100005, on Housatonic River at Great Falls, 0.4 mi 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, 24.5°C July 14; minimum daily, 0.0°C on numerous days during winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	10.0	5.5	.5	.0	.5	3.5	11.0	15.5	21.5	19.0	21.0
2	12.5	10.5	7.5	.5	.0	.5	4.5	12.5	15.0	21.5	19.0	20.0
3	14.0	10.5	5.0	.5	.0	.5	4.5	13.5	15.5	21.5	20.0	19.0
4	14.5	10.0	3.5	1.0	.0	1.0	4.5	13.0	17.5	20.5	21.0	19.0
5	16.5	9.0	1.5	3.0	.0	1.5	5.0	13.0	17.5	19.5	21.0	19.0
6	16.5	8.0	1.0	2.0	.0	1.5	5.0	13.0	17.5	19.0	20.5	19.0
7	14.5	6.0	.5	2.0	.5	2.0	6.0	13.0	17.5	19.0	19.5	19.0
8	12.5	5.5	.5	1.5	.5	2.0	6.5	13.0	18.0	19.5	21.5	19.5
9	11.0	5.0	.5	1.0	.0	2.0	8.0	13.0	18.5	20.5	21.5	19.5
10	11.0	5.0	1.0	1.5	.0	2.0	7.5	13.0	19.0	21.0	19.0	20.0
11	12.5	5.0	1.5	1.5	.0	2.0	6.0	13.5	19.0	22.5	20.0	20.0
12	11.5	4.5	3.5	2.0	.0	1.5	6.0	14.0	19.0	23.0	20.0	18.5
13	11.0	4.5	2.0	2.0	.0	1.0	6.0	15.0	19.5	23.0	19.5	17.5
14	11.0	4.5	3.0	3.0	.0	1.0	5.5	15.5	20.0	24.5	19.0	16.5
15	10.0	4.5	3.0	1.5	.5	.5	6.0	16.0	21.0	23.0	19.0	16.5
16	10.0	5.0	2.0	.5	.5	.5	7.0	16.0	21.0	21.5	18.0	17.5
17	10.0	5.0	1.0	.0	.5	1.0	5.5	15.0	21.0	20.5	17.5	18.5
18	10.5	5.0	.0	.0	.5	2.0	5.5	15.0	21.0	21.0	17.5	18.5
19	10.0	5.5	.0	.0	.5	3.0	6.0	14.5	21.0	22.5	18.0	19.0
20	10.5	5.5	.0	.0	.5	3.5	8.5	15.0	20.5	22.5	18.5	18.5
21	11.0	7.0	.0	.0	.5	3.5	8.5	17.5	20.5	22.5	18.5	18.0
22	11.5	7.0	.0	.0	1.5	2.0	8.5	17.5	20.0	21.5	18.5	17.5
23	11.5	7.0	.0	.0	1.5	2.0	8.5	18.5	19.5	21.5	19.0	16.5
24	11.5	7.0	.0	.0	2.0	2.0	9.0	19.5	18.5	21.5	19.5	14.5
25	11.5	7.0	.0	.0	2.0	3.0	11.0	18.5	17.5	22.5	20.0	14.0
26	11.5	5.5	.0	.0	2.0	3.0	8.5	15.5	18.0	21.0	21.0	14.0
27	11.5	4.0	.0	.0	1.5	4.5	8.5	15.5	18.0	21.0	22.5	13.5
28	12.0	4.5	.0	.0	1.5	3.5	10.0	14.5	18.0	21.0	22.5	13.5
29	11.5	4.5	.5	.0	2.0	3.0	10.0	15.0	18.5	21.0	22.5	13.5
30	11.0	4.0	1.5	.0	---	3.5	10.0	15.5	19.5	21.0	22.5	13.5
31	10.0	---	.0	.0	---	3.5	---	---	---	20.5	21.5	---
MEAN	12.0	6.0	1.5	1.0	.5	2.0	7.0	15.0	19.0	21.5	20.0	17.5
WTR YR 1992	MEAN	10.0		MAX	24.5		MIN	.0				

01199000 HOUSATONIC RIVER AT FALLS VILLAGE, CT

LOCATION.--Lat 41°57'26", long 73°22'11", Litchfield County, Hydrologic Unit 01100005, on left bank at hydroelectric plant of 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.

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	719	646	1380	1210	e610	437	1360	1430	927	392	590	288
2	621	656	1190	1220	e580	657	1390	1380	1320	255	482	314
3	625	587	1340	1060	546	563	1240	2510	1160	254	457	279
4	525	602	1590	927	e520	530	1180	3030	939	437	410	407
5	563	576	1670	1050	e500	554	1070	2860	725	402	717	424
6	795	581	1430	1100	e480	613	1020	2350	1260	538	642	423
7	1640	480	1240	1010	e460	830	992	1850	1880	491	468	277
8	1730	477	1130	1060	e440	1370	1030	1660	1760	417	409	279
9	1390	463	1270	825	e430	1530	913	1450	1510	465	639	289
10	1020	459	1620	813	344	1330	910	1260	1170	422	1110	313
11	1040	559	1680	786	e420	1980	897	1280	912	379	896	438
12	1500	962	1470	683	e410	2840	1360	1140	847	409	957	482
13	1720	1060	1510	702	e400	2560	1360	1030	589	353	761	431
14	1620	973	1590	768	415	1880	1300	991	555	313	491	330
15	1400	895	2070	1200	476	1600	1130	838	482	472	476	330
16	1150	911	2120	864	631	1060	1070	952	448	882	424	276
17	1380	910	1750	734	821	e1000	1350	950	415	952	647	250
18	1610	829	1330	e660	761	e950	2010	904	418	730	953	277
19	1280	778	1150	e620	683	e900	2450	812	407	550	1130	275
20	1280	708	1330	596	698	e860	2400	760	249	547	1020	220
21	1230	711	1220	586	666	e810	2250	660	420	693	922	220
22	1120	945	1190	668	609	802	2160	652	419	519	628	265
23	1040	3130	1130	703	543	e770	2150	520	363	405	440	530
24	991	3940	1150	1350	572	e750	1890	553	411	458	429	731
25	748	3720	1610	1620	624	745	2210	573	811	452	437	598
26	895	2910	1500	1220	694	764	2660	597	684	451	415	403
27	936	2150	1300	960	e814	2100	2580	554	664	409	293	405
28	774	1720	1150	862	770	3130	2230	511	665	367	355	367
29	749	1560	1280	e760	696	2520	1840	539	673	342	319	346
30	673	1410	1070	e700	---	1760	1620	474	372	296	321	337
31	655	---	1190	e650	---	1500	---	536	---	340	382	---
TOTAL	33419	36308	43650	27967	16613	39695	48022	35606	23455	14392	18620	10804
MEAN	1078	1210	1408	902	573	1280	1601	1149	782	464	601	360
MAX	1730	3940	2120	1620	821	3130	2660	3030	1880	952	1130	731
MIN	525	459	1070	586	344	437	897	474	249	254	293	220
CFSM	1.70	1.91	2.22	1.42	.90	2.02	2.52	1.81	1.23	.73	.95	.57
IN.	1.96	2.13	2.56	1.64	.97	2.33	2.82	2.09	1.38	.84	1.09	.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

MEAN	610	938	1086	1088	1095	1947	2423	1401	890	567	515	513
MAX	2657	3795	3151	4490	2790	5291	5207	2892	3143	2302	2509	3543
(WY)	1956	1928	1974	1949	1976	1936	1940	1984	1984	1945	1955	1938
MIN	122	117	131	189	267	669	756	541	277	170	157	130
(WY)	1915	1915	1915	1981	1920	1965	1985	1941	1964	1965	1913	1964

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1913 - 1992	
ANNUAL TOTAL	377528		348551			
ANNUAL MEAN	1034		952		1088	
HIGHEST ANNUAL MEAN					1782	
LOWEST ANNUAL MEAN					403	
HIGHEST DAILY MEAN	3940	Nov 24	3940	Nov 24	23700	Jan 1 1949
LOWEST DAILY MEAN	150	Jun 29	220	Sep 20	24	Oct 15 1914
ANNUAL SEVEN-DAY MINIMUM	183	Jul 31	255	Sep 16	73	Oct 14 1914
INSTANTANEOUS PEAK FLOW			4010	Nov 24	23900	Jan 1 1949
INSTANTANEOUS PEAK STAGE			6.09	Nov 24	19.40	Jan 1 1949
INSTANTANEOUS LOW FLOW			64	Jun 5	b	
ANNUAL RUNOFF (CFSM)	1.63		1.50		1.72	
ANNUAL RUNOFF (INCHES)	22.15		20.45		23.32	
10 PERCENT EXCEEDS	1830		1720		2400	
50 PERCENT EXCEEDS	973		769		722	
90 PERCENT EXCEEDS	224		381		230	

a Present datum, from floodmarks.

b Practically no flow at times when power plant was shut down.

c Also occurred on Sept. 18, 1932.

e Estimated.

HOUSATONIC RIVER BASIN

01199050 SALMON CREEK AT LIME ROCK, CT

LOCATION.--Lat 41°56'32", long 73°23'29", Litchfield County, Hydrologic Unit 01100005, on left bank 300 ft 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Satellite telemetry at this station used for backup stage data.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	23	40	e38	e24	e32	69	64	73	15	80	15
2	20	22	36	e35	e23	31	68	63	54	13	33	13
3	19	21	51	33	e22	29	63	116	40	13	22	15
4	21	19	95	36	e22	29	62	84	33	27	34	17
5	19	20	59	41	21	30	58	72	30	23	61	15
6	67	18	47	39	e20	32	55	68	89	40	33	14
7	62	18	42	35	e19	54	52	63	72	28	29	13
8	36	15	40	33	e19	78	51	59	58	20	25	13
9	32	14	54	30	e18	62	49	57	53	27	63	12
10	29	13	63	e29	e18	57	46	49	38	20	152	12
11	32	20	53	e28	e18	160	46	47	33	16	75	24
12	68	29	48	e27	e17	115	88	49	27	14	72	17
13	48	24	59	27	e17	80	76	44	25	15	56	14
14	39	21	89	40	17	68	62	38	22	15	50	13
15	34	21	101	e36	18	60	52	34	19	34	45	12
16	45	22	74	e31	39	54	48	36	16	73	42	11
17	52	21	66	e28	32	50	83	34	14	40	50	11
18	74	18	59	e25	25	45	127	32	14	31	99	10
19	54	17	e53	e23	26	e42	139	30	13	21	73	10
20	45	17	e48	e22	26	e40	112	27	13	18	58	9.9
21	39	17	46	20	24	e38	103	25	13	15	45	9.4
22	34	60	44	21	23	e37	97	23	13	14	39	11
23	35	203	e40	31	22	e36	94	20	13	15	33	55
24	30	111	e37	91	22	e35	84	20	23	23	28	21
25	31	85	36	101	23	e35	140	26	72	16	25	23
26	30	67	e33	e70	42	40	135	21	30	13	24	21
27	27	56	e32	e50	42	162	103	20	46	15	26	20
28	26	48	31	40	38	103	84	20	29	14	23	19
29	27	44	36	28	35	76	75	18	21	12	26	18
30	25	43	54	27	---	65	68	16	18	19	22	20
31	23	---	43	e25	---	76	---	34	---	25	17	---
TOTAL	1144	1127	1609	1140	712	1851	2389	1309	1014	684	1460	488.3
MEAN	36.9	37.6	51.9	36.8	24.6	59.7	79.6	42.2	33.8	22.1	47.1	16.3
MAX	74	203	101	101	42	162	140	116	89	73	152	55
MIN	19	13	31	20	17	29	46	16	13	12	17	9.4
CFSM	1.26	1.28	1.77	1.25	.84	2.03	2.71	1.44	1.15	.75	1.60	.55
IN.	1.45	1.43	2.04	1.44	.90	2.34	3.02	1.66	1.28	.87	1.85	.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	MEAN	32.4	39.8	50.9	46.4	56.6	84.5	90.3	61.3	42.5	25.3	23.5	20.9
MAX	100	86.8	155	130	134	194	170	181	118	90.0	95.1	72.6	72.6
(WY)	1978	1976	1984	1979	1982	1977	1969	1984	1972	1975	1976	1975	1975
MIN	6.99	5.56	8.07	4.97	8.91	29.4	26.6	20.6	9.50	5.74	4.86	3.48	3.48
(WY)	1965	1965	1981	1981	1980	1965	1985	1965	1964	1965	1964	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1962 - 1992

ANNUAL TOTAL	15550.2	14927.3	
ANNUAL MEAN	42.6	40.8	47.8
HIGHEST ANNUAL MEAN			73.3
LOWEST ANNUAL MEAN			15.9
HIGHEST DAILY MEAN	225	May 7	203
LOWEST DAILY MEAN	5.4	Aug 2	9.4
ANNUAL SEVEN-DAY MINIMUM	6.1	Jul 19	10
INSTANTANEOUS PEAK FLOW			244
INSTANTANEOUS PEAK STAGE			2.38
INSTANTANEOUS LOW FLOW			2.2
ANNUAL RUNOFF (CFSM)	1.45	1.39	1.63
ANNUAL RUNOFF (INCHES)	19.68	18.89	22.09
10 PERCENT EXCEEDS	83	75	99
50 PERCENT EXCEEDS	38	32	31
90 PERCENT EXCEEDS	7.6	15	8.8

a Also occurred Sept. 21.

e Estimated

HOUSATONIC RIVER BASIN

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01199900 TENMILE RIVER AT SOUTH DOVER NEAR WINGDALE, NY

LOCATION.--Lat 41°39'46", long 73°33'35", Dutchess County, Hydrologic Unit 01100005, at bridge on Regan's Mill Rd., 0.6 miles north of Webatuck, NY, and 2.1 miles upstream from gaging station 01200000.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--October 1991 to September 1992.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT 23...	1330	176	355	8.4	21.0	10.0	0.70	12.3	109	K16	K4
NOV 19...	1230	117	387	8.4	13.0	3.0	0.70	15.6	116	K9	K6
DEC 12...	1240	391	317	8.3	11.0	3.5	1.5	13.4	101	K5	K18
JAN 14...	1305	231	365	8.0	14.0	3.5	10	12.8	101	K12	180
MAR 11...	1330	822	270	7.9	6.0	6.5	14	10.9	93	760	140
APR 16...	1240	281	338	8.4	2.0	6.5	0.80	13.6	111	35	K6
MAY 20...	1240	198	359	8.4	26.0	15.5	2.1	11.5	116	25	K5
JUN 10...	1245	293	287	8.2	18.5	18.5	3.4	9.3	101	140	23
JUL 14...	1255	91	372	8.4	32.0	23.0	1.8	9.8	116	150	70
AUG 20...	1320	234	356	8.4	20.5	18.5	3.4	10.5	112	440	20
SEP 24...	1145	90	428	8.4	14.0	14.5	1.4	14.4	140	480	K16

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 23...	180	44	16	9.1	2.3	5	182	157	20	21	<0.10
NOV 19...	190	47	18	11	2.4	5	197	170	19	19	0.10
DEC 12...	150	36	14	7.8	1.7	0	150	123	20	17	0.20
JAN 14...	140	37	11	17	1.3	0	195	160	17	25	0.10
MAR 11...	120	30	12	7.9	1.6	0	131	107	17	15	<0.10
APR 16...	150	36	14	8.2	1.7	0	177	145	18	18	0.10
MAY 20...	180	44	16	9.3	1.7	5	190	164	19	19	<0.10
JUN 10...	130	34	12	7.4	1.6	0	155	127	11	15	0.20
JUL 14...	180	43	17	10	1.9	1	157	130	15	19	<0.10
AUG 20...	170	43	16	8.4	2.0	6	189	165	11	18	0.10
SEP 24...	200	48	19	10	2.5	5	241	206	15	22	<0.10

HOUSATONIC RIVER BASIN

01199900 TENMILE RIVER AT SOUTH DOVER NEAR WINGDALE, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 23...	5.1	202	211	--	<0.010	0.490	0.030	5.7	5.7	6.2	0.010
NOV 19...	2.7	242	237	0.850	0.020	0.870	0.010	--	<0.20	--	<0.010
DEC 12...	5.2	191	211	0.730	0.010	0.740	<0.010	--	<0.20	--	<0.010
JAN 14...	4.0	177	186	--	<0.010	0.650	0.080	0.22	0.30	0.95	0.050
MAR 11...	3.6	136	238	0.720	0.010	0.730	0.110	0.49	0.60	1.3	0.100
APR 16...	0.20	202	187	--	<0.010	0.810	0.020	--	<0.20	--	<0.010
MAY 20...	2.6	194	207	--	<0.010	0.620	0.020	0.28	0.30	0.92	0.030
JUN 10...	6.0	165	167	--	<0.010	0.430	0.030	0.17	0.20	0.63	0.050
JUL 14...	4.1	206	213	0.580	0.010	0.590	0.020	--	<0.20	--	0.010
AUG 20...	6.8	196	230	--	<0.010	0.480	0.020	--	<0.20	--	0.020
SEP 24...	4.3	233	260	--	<0.010	0.510	0.020	0.18	0.20	0.71	<0.010

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 23...	<0.010	<0.010	<1.0	<1	2	33	<1	16	1	7	3.5
NOV 19...	<0.010	<0.010	<1.0	<1	<1	8	<1	10	<1	<3	2.8
DEC 12...	<0.010	0.020	<1.0	<1	<1	26	<1	12	<1	13	2.5
JAN 14...	0.040	0.030	<1.0	<1	<1	35	<1	53	<1	25	3.0
MAR 11...	<0.010	0.020	<1.0	<1	<1	28	<1	20	<1	6	7.6
APR 16...	<0.010	<0.010	<1.0	<1	<1	<3	<1	<1	<1	<3	2.4
MAY 20...	0.030	0.010	<1.0	<1	<1	22	<1	19	<1	<3	3.3
JUN 10...	0.050	0.030	<1.0	<1	<1	63	<1	25	<1	18	5.1
JUL 14...	<0.010	0.030	<1.0	<1	<1	13	<1	14	<1	10	3.0
AUG 20...	<0.010	0.020	<1.0	<1	<1	21	<1	13	<1	<3	4.5
SEP 24...	0.010	0.010	<1.0	<1	<1	14	<1	9	<1	<3	3.2

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, Hydrologic Unit 01100005, 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.

PERIOD OF RECORD.--Discharge: October 1929 to September 1987, October 1991 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301. October 1987 to September 1991 partial record site.

Water-quality records: Water years 1959, 1968, 1973-75, 1980.

Daily water temperature: Water year 1959.

Daily specific conductance: Water years 1958-59.

Daily pH: Water years 1958-59.

REVISED RECORDS.--WSP 1201: 1939. WSP 1701: 1955-56, 1957(M), 1958-59. WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.4 ft above National Geodetic Vertical Datum of 1929, (levels to Connecticut Light and Power Company).

REMARKS.--Records good except for periods of estimated record, which are fair. Several measurements of water temperature and specific conductance were made during the year and are listed in the miscellaneous specific conductance and temperature determinations tables. Infrequent regulation at low flow.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	124	325	264	e200	e200	612	432	299	108	263	79
2	78	122	305	e254	182	e195	586	416	255	93	204	73
3	71	121	452	253	e175	e196	531	582	197	87	151	75
4	65	115	900	276	e165	e210	483	511	167	111	131	81
5	66	111	668	306	e160	254	442	444	165	130	150	81
6	204	108	560	295	e151	251	406	405	534	211	133	78
7	343	105	527	273	e148	285	387	379	444	188	112	75
8	240	103	498	251	e140	438	366	354	376	146	98	75
9	198	101	503	232	e138	396	348	351	397	142	172	70
10	171	99	486	e220	135	374	344	329	315	140	302	67
11	168	126	442	e210	168	744	344	311	249	114	232	89
12	273	178	412	200	141	724	402	289	211	100	187	98
13	251	183	447	212	136	556	392	271	184	106	172	81
14	210	166	603	249	141	479	340	257	160	95	157	73
15	192	152	701	339	137	436	318	234	141	108	149	67
16	206	149	555	229	e210	381	308	252	126	389	146	63
17	219	139	471	198	e185	364	491	265	115	270	200	59
18	323	128	e420	e195	e170	354	684	241	103	197	360	57
19	282	123	371	e190	e160	352	732	233	103	172	334	58
20	241	118	e350	e188	e150	343	639	209	111	171	249	56
21	229	119	e340	e187	e145	341	581	189	124	148	210	56
22	202	315	e330	e200	e143	311	563	172	108	119	185	54
23	188	1110	e320	221	e140	305	557	159	99	113	165	79
24	179	847	e305	615	e143	289	506	150	133	128	146	96
25	166	664	e295	395	e155	282	701	180	241	115	132	76
26	158	535	280	346	e240	318	740	170	213	100	119	71
27	155	449	271	285	e220	1260	619	151	196	100	109	74
28	144	401	254	268	e208	1020	546	144	188	95	102	74
29	135	372	271	240	e208	756	503	134	147	87	101	68
30	130	348	386	231	---	615	462	126	122	99	94	61
31	126	---	297	e212	---	660	---	153	---	155	88	---
TOTAL	5703	7731	13345	8034	4794	13689	14933	8493	6223	4337	5353	2164
MEAN	184	258	430	259	165	442	498	274	207	140	173	72.1
MAX	343	1110	900	615	240	1260	740	582	534	389	360	98
MIN	65	99	254	187	135	195	308	126	99	87	88	54
CFSM	.91	1.27	2.12	1.28	.81	2.18	2.45	1.35	1.02	.69	.85	.36
IN.	1.05	1.42	2.45	1.47	.88	2.51	2.74	1.56	1.14	.79	.98	.44

MEAN	143	241	317	353	383	640	614	350	256	152	115	110
MAX	1222	1067	896	1055	873	1690	1366	779	1078	998	1007	1082
(WY)	1956	1956	1974	1979	1976	1977	1983	1945	1984	1938	1955	1938
MIN	15.7	21.5	56.4	38.1	94.7	216	197	124	48.2	17.8	14.7	10.8
(WY)	1958	1965	1965	1981	1936	1965	1966	1941	1965	1957	1966	1957

WATER YEARS 1931 - 1992

a From rating curve extended above 9,800 ft³/s.
b From high-water mark.
c Estimated

HOUSATONIC RIVER BASIN

01200500 HOUSATONIC RIVER AT GAYLORDSVILLE, CT

LOCATION.--Lat 41°39'11", long 73°29'25", Litchfield County, Hydrologic Unit 01100005, on left bank 0.4 mi 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. 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 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	880	870	1920	1390	e1000	1030	2480	2270	1340	540	917	463
2	780	881	1740	1330	e950	941	2390	2070	1720	474	859	436
3	762	856	2050	1390	900	991	2240	3270	1580	363	677	394
4	677	804	3090	1360	870	e900	2030	4070	1370	577	650	496
5	787	808	2740	1500	861	891	1900	3870	1110	662	822	616
6	976	785	2460	1570	856	994	1720	3340	2000	949	819	604
7	2110	718	2010	1450	792	1180	1680	2730	2580	934	827	456
8	2120	624	1880	1420	775	2100	1610	2380	2600	710	609	391
9	1910	705	2090	1250	e720	2180	1530	2220	2400	728	802	359
10	1370	643	2440	1160	e680	2080	1500	1900	1840	712	1590	454
11	1280	694	2410	1160	e660	3070	1480	1770	1360	586	1360	541
12	1910	1040	2300	988	e640	4110	1870	1730	1270	537	1260	591
13	2180	1320	2190	1090	e630	3710	2150	1550	1010	577	1210	651
14	2080	1290	2660	1120	603	2900	1960	1430	843	515	762	535
15	1830	1180	3120	1660	691	2390	1720	1300	711	540	814	435
16	1560	1160	3130	1480	1220	1820	1620	1420	703	1570	651	485
17	1690	1140	2670	1040	1310	e1650	2110	1300	609	1480	893	254
18	2240	1120	2190	e1000	1200	e1550	2370	1180	675	1250	1490	349
19	1910	943	1640	e950	1140	e1500	3800	976	586	802	1760	358
20	1590	905	1710	e930	1060	e1400	3650	1050	572	846	1510	268
21	1550	920	1850	e900	1040	e1320	3380	1030	535	895	1270	302
22	1440	1460	1780	892	956	1270	3200	999	668	811	1030	374
23	1290	4440	1730	1020	899	e1250	3170	929	581	651	878	528
24	1250	5390	1700	2160	879	e1210	2920	819	618	721	569	733
25	1190	5070	1480	2280	950	1210	3420	842	1100	699	648	815
26	963	4110	1370	1910	1180	1250	4050	868	1070	619	616	661
27	1110	3080	1320	1530	1390	4000	3870	813	999	552	587	555
28	1010	2520	1280	1210	1330	5010	3390	806	946	521	476	494
29	1020	2300	1290	1240	1260	4020	2900	789	921	518	697	533
30	958	2000	1690	1180	---	3010	2550	759	804	509	433	433
31	855	---	1690	1100	---	2720	---	817	---	647	518	---
TOTAL	43278	49776	63620	40660	27442	63657	74660	51297	35121	22495	28004	14564
MEAN	1396	1659	2052	1312	946	2053	2489	1655	1171	726	903	485
MAX	2240	5390	3130	2280	1390	5010	4050	4070	2600	1570	1760	815
MIN	677	624	1280	892	603	891	1480	759	535	363	433	254
CFSM	1.40	1.67	2.06	1.32	.95	2.06	2.50	1.66	1.18	.73	.91	.49
IN.	1.62	1.86	2.38	1.52	1.02	2.38	2.79	1.92	1.31	.84	1.05	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1992, BY WATER YEAR (WY)

MEAN	927	1420	1708	1755	1885	3042	3476	2224	1463	858	757	639
MAX	4500	5024	4835	6599	4398	6529	6447	5079	4538	3323	4433	2297
(WY)	1956	1956	1974	1949	1976	1977	1956	1989	1984	1972	1955	1975
MIN	203	203	411	288	592	1037	972	810	389	236	213	182
(WY)	1965	1965	1965	1981	1980	1965	1985	1965	1964	1965	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1941 - 1992

ANNUAL TOTAL	555800	514574	
ANNUAL MEAN	1523	1406	
HIGHEST ANNUAL MEAN			1677
LOWEST ANNUAL MEAN			2426
HIGHEST DAILY MEAN	5680	Jan 1	38800
LOWEST DAILY MEAN	205	Sep 14	a 60
ANNUAL SEVEN-DAY MINIMUM	235	Aug 3	104
INSTANTANEOUS PEAK FLOW		5440	51800
INSTANTANEOUS PEAK STAGE		6.50	18.58
INSTANTANEOUS LOW FLOW		202	b 30
ANNUAL RUNOFF (CFSM)	1.53	1.41	1.68
ANNUAL RUNOFF (INCHES)	20.76	19.22	22.88
10 PERCENT EXCEEDS	2870	2620	3650
50 PERCENT EXCEEDS	1440	1160	1140
90 PERCENT EXCEEDS	278	554	335

a Also occurred on Sept. 20, 1949.

b Site and datum then in use.

e Estimated.

HOUSATONIC RIVER BASIN

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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 1992 (discontinued).

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
24...	1230	52	485	7.5	19.0	12.0	2.7	6.6	61	200	200
NOV											
22...	1130	152	276	7.5	12.5	9.5	5.7	8.1	71	10000	4300
DEC											
17...	1315	91	400	7.6	-2.0	0.5	3.8	11.8	82	84	1025
JAN											
24...	1230	505	250	7.5	5.0	1.5	11	12.5	92	2300	3100
MAR											
18...	1330	85	410	7.6	4.5	4.0	3.5	11.0	84	740	296
APR											
24...	1220	117	374	7.7	23.0	14.0	1.8	11.9	117	1500	940
MAY											
21...	1130	54	490	7.6	29.0	15.5	4.5	5.4	54	160	32
JUN											
17...	1230	62	454	7.6	25.0	18.5	4.5	5.8	62	260	170
JUL											
23...	0915	57	494	7.6	20.0	17.5	4.0	4.5	47	850	255
AUG											
06...	1310	42	508	7.5	27.5	18.0	2.4	5.5	58	250	25
SEP											
24...	1400	58	442	7.6	14.0	14.0	3.5	6.5	62	2600	500

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
24...	160	42	14	33	4.8	0	178	146	34	52
NOV										
22...	94	25	7.7	16	3.4	0	102	84	18	24
DEC										
17...	140	36	11	24	3.3	0	138	113	29	40
JAN										
24...	69	18	5.8	20	2.0	0	68	56	12	32
MAR										
18...	140	36	11	24	3.1	0	145	119	26	46
APR										
24...	130	33	11	22	2.9	0	134	110	22	42
MAY										
21...	160	42	13	33	4.6	0	157	129	32	57
JUN										
17...	140	38	12	30	4.1	0	151	124	26	55
JUL										
23...	170	43	14	30	4.7	0	169	139	26	56
AUG										
06...	170	43	14	33	5.2	0	170	139	31	59
SEP										
24...	140	36	12	27	4.5	0	155	127	25	42

HOUSATONIC RIVER BASIN

01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 24...	0.30	9.8	266	294	1.33	0.170	1.50	2.20	1.3	3.5
NOV 22...	0.10	5.3	150	243	2.22	0.080	2.30	0.570	1.2	1.8
DEC 17...	0.20	10	219	229	1.07	0.030	1.10	1.60	0.50	2.1
JAN 24...	<0.10	5.0	137	175	2.88	0.020	2.90	0.400	0.60	1.0
MAR 18...	<0.10	7.1	224	253	1.26	0.040	1.30	1.40	0.70	2.1
APR 24...	0.20	4.7	220	213	1.11	0.090	1.20	0.700	0.60	1.3
MAY 21...	0.30	6.4	284	269	2.12	0.280	2.40	1.80	1.2	3.0
JUN 17...	0.30	8.1	260	276	1.41	0.290	1.70	2.20	0.80	3.0
JUL 23...	0.20	8.2	271	310	2.02	0.280	2.30	2.30	0.90	3.2
AUG 06...	0.30	7.6	290	299	2.17	0.330	2.50	2.30	1.4	3.7
SEP 24...	0.20	8.7	235	390	1.56	0.140	1.70	2.00	0.80	2.8

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 24...	5.0	0.360	0.300	0.310	<1	<1.0	<1	<1	20	3
NOV 22...	4.1	0.640	0.220	0.260	<1	<1.0	9	<1	--	3
DEC 17...	3.2	0.330	0.260	0.280	<1	<1.0	2	<1	--	3
JAN 24...	3.9	0.280	0.060	0.100	<1	<1.0	4	<1	14	2
MAR 18...	3.4	0.390	0.300	0.310	<1	<1.0	<1	<1	6	2
APR 24...	2.5	0.190	0.090	0.130	<1	<1.0	<1	<1	4	2
MAY 21...	5.4	0.250	0.120	0.180	<1	<1.0	4	<1	6	3
JUN 17...	4.7	0.160	0.080	0.150	<1	<1.0	<1	<1	6	3
JUL 23...	5.5	0.150	0.090	0.120	<1	<1.0	<1	<1	6	2
AUG 06...	6.2	0.190	0.100	0.140	<1	<1.0	<1	<1	6	3
SEP 24...	4.5	0.400	0.320	0.330	<1	<1.0	<1	<1	3	2

HOUSATONIC RIVER BASIN

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01201485 STILL RIVER AT BROOKFIELD CENTER, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24...	370	80	3	<1	79	4	3	<10	8	7.1
NOV 22...	3400	140	19	<1	110	7	3	60	<3	14
DEC 17...	590	72	2	<1	83	5	3	50	16	5.2
JAN 24...	2700	120	11	<1	66	3	2	40	10	7.1
MAR 18...	520	54	3	<1	90	8	3	20	13	4.8
APR 24...	500	42	2	<1	96	3	3	20	7	5.3
MAY 21...	940	64	2	<1	310	5	4	20	15	6.4
JUN 17...	910	67	3	<1	140	5	5	20	24	6.5
JUL 23...	780	47	10	<1	150	4	4	20	8	6.2
AUG 06...	560	52	2	<1	98	6	5	60	12	6.3
SEP 24...	600	70	2	<1	70	2	4	10	4	6.4

HOUSATONIC RIVER BASIN

01203000 SHEPAUG RIVER NEAR ROXBURY, CT

LOCATION.--Lat 41°32'59", long 73°19'49", Litchfield County, Hydrologic Unit 01100005, on right bank at downstream side of Wellers Bridge 0.5 mi 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
24...	0945	250	110	7.8	17.5	10.5	1.2	11.2	99	88	24
NOV											
22...	0940	430	112	7.6	13.5	7.0	3.2	11.8	97	2800	700
DEC											
17...	1045	300	100	7.7	-2.0	0.0	0.80	14.6	100	K3	K8
JAN											
24...	0950	790	106	7.1	4.0	0.0	5.1	14.4	101	3500	820
MAR											
18...	1115	240	111	7.1	3.0	1.5	1.5	14.4	103	25	20
APR											
24...	1045	320	102	7.8	12.0	11.5	0.70	11.7	109	26	K6
MAY											
21...	0925	92	120	7.9	29.0	14.5	0.60	10.6	104	52	K16
JUN											
17...	1010	430	123	8.1	29.0	17.5	1.2	10.0	105	58	41
JUL											
23...	1200	62	127	8.0	15.5	17.5	1.7	8.7	91	100	K12
AUG											
17...	1115	110	130	8.1	20.0	17.0	4.0	9.5	99	200	136
SEP											
24...	0915	35	140	8.0	12.0	12.5	1.4	10.4	97	130	70

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
24...	40	9.6	3.9	5.4	1.5	0	39	32	9.1	11	<0.10
NOV											
22...	40	9.9	3.8	5.3	2.1	0	40	33	10	8.5	0.10
DEC											
17...	36	8.7	3.4	5.0	1.2	0	31	25	10	7.7	<0.10
JAN											
24...	33	8.0	3.2	6.4	1.5	0	30	25	3.3	11	0.10
MAR											
18...	37	8.9	3.6	6.2	1.2	0	33	27	9.8	9.3	0.20
APR											
24...	34	8.4	3.2	5.5	1.2	0	31	25	9.8	9.2	<0.10
MAY											
21...	44	11	3.9	6.8	1.5	0	41	34	9.2	10	<0.10
JUN											
17...	44	11	4.1	6.6	1.4	0	43	35	13	15	<0.10
JUL											
23...	45	11	4.3	6.7	1.3	0	47	39	7.4	11	<0.10
AUG											
17...	48	12	4.4	6.6	1.5	0	50	41	7.3	10	<0.10
SEP											
24...	47	12	4.2	7.2	2.0	0	51	42	7.9	12	0.10

HOUSATONIC RIVER BASIN

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01203000 SHEPAUG RIVER NEAR ROXBURY, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 24...	4.9	67	69	0.100	0.020	0.120	0.020	0.28	0.30	0.42	0.010
NOV 22...	4.5	79	107	0.240	0.020	0.260	0.030	0.87	0.90	1.2	0.130
DEC 17...	6.3	75	82	0.260	0.010	0.270	<0.010	--	0.20	0.47	0.030
JAN 24...	4.9	69	83	0.360	0.010	0.370	0.080	0.62	0.70	1.1	0.120
MAR 18...	5.2	64	75	--	<0.010	0.270	0.020	0.18	0.20	0.47	0.010
APR 24...	3.6	69	62	--	<0.010	0.200	0.020	0.28	0.30	0.50	0.030
MAY 21...	2.5	72	78	0.140	0.020	0.160	0.040	0.26	0.30	0.46	0.040
JUN 17...	3.2	75	77	--	<0.010	0.140	0.030	0.27	0.30	0.44	<0.010
JUL 23...	2.7	77	78	--	<0.010	0.120	0.050	0.25	0.30	0.42	0.030
AUG 17...	4.9	76	83	--	<0.010	0.330	0.030	0.37	0.40	0.73	0.060
SEP 24...	3.3	87	90	--	<0.010	0.440	0.020	0.18	0.20	0.64	<0.010

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24...	<0.010	<0.010	<1.0	<1	2	65	<1	6	<1	6	5.2
NOV 22...	0.010	0.050	<1.0	<1	2	87	<1	8	<1	15	7.1
DEC 17...	0.020	<0.010	<1.0	<1	3	77	1	6	1	7	3.8
JAN 24...	0.030	0.040	<1.0	<1	1	92	<1	12	<1	10	6.9
MAR 18...	<0.010	<0.010	<1.0	<1	1	55	<1	8	<1	4	3.4
APR 24...	<0.010	<0.010	<1.0	<1	<1	51	<1	8	<1	24	3.8
MAY 21...	0.030	0.020	<1.0	<1	2	100	<1	20	<1	15	4.1
JUN 17...	0.030	0.020	<1.0	1	2	69	<1	12	1	23	4.5
JUL 23...	<0.010	0.020	<1.0	<1	<1	68	<1	13	<1	12	4.8
AUG 17...	0.020	<0.010	<1.0	<1	1	150	<1	18	<1	5	6.6
SEP 24...	0.020	0.010	<1.0	<1	1	64	<1	10	<1	3	3.8

HOUSATONIC RIVER BASIN

01204000 POMPERAUG RIVER AT SOUTHURY, CT

LOCATION.--Lat 41°28'50", long 73°13'30", New Haven County, Hydrologic Unit 01100005, on right bank 200 ft 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, 1965-74.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Satellite telemetry at this station used for primary stage data. Flow regulated by Lockwood Reservoir and occasionally at low flow by mill upstream. Diversion for municipal supply of town of Watertown.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	64	122	92	e72	113	251	129	307	53	116	34
2	71	62	114	e84	e70	e115	240	129	134	43	56	30
3	63	65	273	e80	e67	108	206	181	81	40	41	44
4	59	64	537	115	e64	104	184	144	60	82	38	59
5	54	56	260	127	e62	104	167	125	122	81	38	43
6	151	53	221	109	e60	102	152	111	1250	87	31	38
7	144	52	198	97	e58	149	143	100	412	60	26	36
8	92	51	195	89	e56	234	138	95	259	47	24	35
9	77	49	209	88	e54	175	129	106	199	48	192	33
10	70	49	237	95	e52	159	133	96	144	41	159	33
11	77	77	187	88	e51	580	125	90	115	34	83	45
12	234	104	167	69	e50	316	132	82	97	32	66	40
13	125	96	183	78	e49	226	117	86	86	35	48	29
14	99	77	259	156	e48	e180	106	76	75	32	49	26
15	95	70	228	143	60	e155	98	66	65	101	45	24
16	179	71	176	88	325	e135	103	97	54	258	46	23
17	138	62	e145	72	167	e130	260	88	50	98	70	22
18	205	58	e125	e70	121	136	321	79	46	72	677	21
19	141	56	108	e65	e115	142	328	70	45	56	255	22
20	114	56	e105	e62	e105	136	230	60	60	46	158	21
21	101	66	e120	e60	99	134	203	52	69	39	109	20
22	101	355	e115	e58	92	125	198	48	50	34	86	22
23	91	694	e110	151	90	126	185	44	44	37	71	62
24	85	311	e105	427	e87	114	169	41	110	45	61	34
25	82	236	99	170	e84	117	283	41	192	34	53	26
26	80	186	89	127	301	186	228	38	88	30	48	32
27	76	160	e85	102	223	1110	189	39	94	40	44	42
28	71	148	e80	e94	173	454	166	38	98	34	43	44
29	65	139	115	e87	153	308	151	35	63	36	75	33
30	63	128	166	e80	---	256	137	34	66	63	48	27
31	63	---	113	e76	---	285	---	70	---	70	39	---
TOTAL	3143	3715	5246	3299	3008	6714	5472	2490	4535	1808	2895	1000
MEAN	101	124	169	106	104	217	182	80.3	151	58.3	93.4	33.3
MAX	234	694	537	427	325	1110	328	181	1250	258	677	62
MIN	54	49	80	58	48	102	98	34	44	30	24	20
CFSM	1.35	1.65	2.25	1.42	1.38	2.88	2.43	1.07	2.01	.78	1.24	.44
IN.	1.56	1.84	2.60	1.63	1.49	3.33	2.71	1.23	2.25	.90	1.43	.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1992, BY WATER YEAR (WY)

	MEAN	70.7	116	147	159	164	256	234	148	94.6	52.7	52.9	53.3
MAX	625	468	367	525	366	557	693	476	493	272	578	304	
(WY)	1956	1956	1984	1979	1970	1936	1987	1989	1982	1938	1955	1938	
MIN	10.4	13.6	22.1	17.5	44.6	112	61.9	40.3	18.6	9.56	6.29	7.66	
(WY)	1936	1965	1936	1981	1936	1989	1985	1941	1957	1957	1966	1953	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1933 - 1992

	ANNUAL TOTAL	45187.2	43325	
ANNUAL MEAN	124	118	129	
HIGHEST ANNUAL MEAN			208	1984
LOWEST ANNUAL MEAN			53.8	1966
HIGHEST DAILY MEAN	888	Sep 25	1250	Jun 6
LOWEST DAILY MEAN	7.3	Jul 22	20	Sep 21
ANNUAL SEVEN-DAY MINIMUM	7.7	Jul 16	22	Sep 16
INSTANTANEOUS PEAK FLOW			1930	Jun 6
INSTANTANEOUS PEAK STAGE			7.55	Jun 6
INSTANTANEOUS LOW FLOW			e19	Sep 18
ANNUAL RUNOFF (CFSM)	1.65		1.58	
ANNUAL RUNOFF (INCHES)	22.38		21.46	
10 PERCENT EXCEEDS	248		228	
50 PERCENT EXCEEDS	101		88	
90 PERCENT EXCEEDS	17		38	

a from rating curve extended above 1,200 ft³/s by computation of peak flow over dam at gage height 16.0 feet and by slope-area measurement of peak flow.

b from outside floodmarks.

c Also occurred Sept. 21.

d Also occurred Aug 31, 1966

e Estimated

HOUSATONIC RIVER BASIN

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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.--Some days have no records because of ice conditions or missed records. Extremes for period of daily record and current year are only for those values reported.

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 July 23, 24; minimum daily, 0.0°C on numerous days during winter periods.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	11.5	6.5	2.0	2.0	3.0	4.5	12.5	16.0	23.0	23.0	22.0
2	17.5	11.5	6.5	2.0	2.0	3.5	5.0	13.0	16.5	23.0	23.0	22.0
3	17.5	11.0	6.5	2.0	2.0	3.0	5.0	13.5	18.5	22.0	23.5	21.0
4	18.0	11.0	6.0	2.0	1.5	3.5	5.0	13.5	20.0	23.0	23.5	21.5
5	17.5	11.0	6.0	2.0	1.5	3.5	5.5	13.0	19.5	24.0	23.5	21.0
6	16.5	10.5	5.5	2.0	2.0	3.0	5.5	12.5	19.0	23.5	24.0	21.0
7	15.5	10.5	5.5	2.0	1.5	3.5	5.5	12.5	19.0	23.5	24.0	21.0
8	15.5	10.0	5.5	1.5	1.5	3.5	5.5	13.0	18.0	23.0	24.0	21.0
9	15.5	10.0	5.5	1.0	1.5	3.0	6.0	13.5	18.5	23.0	23.5	21.5
10	15.5	9.5	5.0	.0	1.5	3.5	6.0	13.5	19.0	23.0	23.5	21.5
11	15.5	9.0	5.0	.0	1.5	4.0	6.0	14.5	19.5	23.5	24.0	21.5
12	15.0	8.0	5.0	.0	1.5	3.0	6.0	15.0	20.0	24.0	24.0	22.0
13	15.0	7.5	4.5	.0	1.5	3.0	6.0	15.5	20.5	24.0	23.5	22.0
14	15.0	6.5	4.5	1.5	1.0	2.0	6.0	16.0	21.0	24.5	23.5	22.0
15	15.0	6.5	4.0	1.0	1.0	2.0	6.5	15.5	22.0	24.5	23.0	22.0
16	15.0	6.5	4.0	.5	1.0	2.0	6.5	15.5	21.0	25.0	23.0	22.0
17	15.0	6.0	4.0	.5	1.5	2.0	7.0	15.5	20.5	25.0	23.0	22.0
18	15.0	6.0	3.5	.0	1.0	3.5	6.5	16.0	20.5	25.0	23.0	23.0
19	15.0	6.0	3.5	.0	1.0	2.0	6.5	15.5	21.0	25.0	22.0	22.0
20	14.5	8.0	3.5	.5	1.5	2.0	7.0	16.5	21.0	25.0	22.0	22.0
21	14.0	8.5	3.0	.5	2.0	1.5	8.0	18.5	21.0	25.0	22.0	21.5
22	13.5	9.0	3.0	.5	3.0	1.0	9.0	19.0	20.5	25.0	22.0	21.0
23	13.0	8.5	3.0	.5	3.0	.5	9.0	19.5	20.5	25.5	21.5	20.5
24	13.0	7.5	2.5	.5	2.0	.0	9.0	20.0	21.0	25.5	21.5	20.0
25	13.0	6.5	2.5	.5	3.0	1.0	9.0	19.0	21.0	25.0	21.5	19.5
26	13.0	6.5	1.5	.5	3.0	3.5	9.0	18.5	21.0	24.5	21.5	19.5
27	13.0	6.5	1.5	1.0	3.5	3.5	9.5	18.0	21.5	24.5	21.5	19.5
28	12.0	7.5	1.0	1.0	3.5	3.5	9.5	18.5	21.5	24.0	21.5	19.5
29	12.0	7.5	1.0	1.0	2.0	3.5	10.0	19.0	22.0	24.0	21.5	19.5
30	11.5	7.5	1.0	2.0	---	4.0	11.0	18.0	22.0	24.0	22.0	19.0
31	11.5	---	1.0	2.0	---	4.0	---	18.0	---	23.5	22.0	---
MEAN	14.5	8.5	4.0	1.0	2.0	2.5	7.0	16.0	20.0	24.0	22.5	21.0
WTR YR 1992	MEAN	12.0		MAX	25.5		MIN	.0				

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT
(National stream-quality accounting network station)

LOCATION.--Lat 41°23'02", long 73°10'05", New Haven County, Hydrologic Unit 01100005, on left bank, 0.2 mi 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.--No estimated daily discharges. Records good. U. S. Army Corps of Engineers satellite telemetry for stage and discharge is on site. Ordinary flow completely regulated by Stevenson Hydroelectric Plant. Flow regulated by Lake Candlewood, Lake Lillinonah, Lake Zoar, Cairns and Shepaug Reservoirs, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2230	74	3570	1500	89	72	4660	4560	3730	1460	1830	116
2	2430	69	4310	2940	66	2010	4440	4150	2580	1530	908	918
3	1910	58	4960	3140	2100	1720	3560	1460	2540	114	87	457
4	1690	1370	5400	2190	1600	1880	3140	4280	2330	291	1830	1890
5	117	974	6300	66	2060	1810	297	5310	2600	770	1390	756
6	1210	1100	5790	3700	2200	1930	3310	5300	6290	1850	1630	786
7	3760	1140	5120	2730	1020	1980	2570	4470	6080	2130	1790	509
8	2620	1370	3140	2560	70	2830	2750	4110	4410	2240	83	1320
9	3520	69	4230	2530	812	3780	2570	3370	4170	1930	2590	1590
10	3360	1370	4580	2350	1920	3240	2830	132	3870	1890	1770	1810
11	2980	1090	5570	73	1350	4690	2700	2760	3130	107	1860	903
12	2960	2480	4760	68	1150	6170	701	1910	1900	125	2080	161
13	2970	3380	5290	2960	1330	5840	3700	1830	1420	1960	2460	165
14	2250	3120	4430	3180	1390	4230	2520	2370	107	2270	1530	1380
15	3720	2360	3760	3110	606	2810	3280	743	1920	1050	1470	870
16	3090	2990	4140	3270	1800	3180	3330	108	1010	4120	1170	1090
17	3440	85	5000	2270	3010	3090	4110	1640	2020	3300	1300	947
18	3470	2010	4200	875	2720	2920	4980	2300	1750	1910	5470	815
19	2730	2610	3010	65	2120	2790	2950	2490	1790	368	3350	122
20	797	1050	2770	1870	2130	3000	4420	2270	558	2010	3030	125
21	2800	2770	759	1900	2150	1100	5300	2080	111	2100	3140	1080
22	3040	3620	1620	1620	954	74	5860	1290	1660	2050	1480	853
23	2620	6420	3390	2540	77	3090	5380	521	1530	1370	762	865
24	2540	6320	3700	4310	2140	2510	4430	105	2050	897	1980	1760
25	3730	6310	1300	3350	2020	2230	4530	1120	2390	88	1990	2040
26	5140	6370	3200	1890	2600	3180	5700	1380	1720	88	1860	956
27	921	5910	2450	3010	3460	7570	3800	2360	111	1550	1960	123
28	1780	5000	67	3020	3360	7170	4720	1060	1580	1300	1030	1160
29	1450	4120	1400	2550	742	6400	4500	1090	1780	1560	1640	872
30	1750	4450	3840	2310	---	5090	4230	106	1420	1110	122	812
31	2260	---	4070	2570	---	4830	---	1180	---	1250	947	---
TOTAL	79285	80059	116126	70517	47046	103216	111268	67855	68557	44788	54539	27251
MEAN	2558	2669	3746	2275	1622	3330	3709	2189	2285	1445	1759	908
MAX	5140	6420	6300	4310	3460	7570	5860	5310	6290	4120	5470	2040
MIN	117	58	67	65	66	72	297	105	107	88	83	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
MEAN	1429	2199	2745	2886	2978	4803	5292	3289	2210	1260	1145	1134
MAX	8810	8786	7314	9441	6869	12960	11150	8627	7013	4923	8294	8705
(WY)	1956	1956	1974	1949	1976	1936	1983	1989	1972	1938	1955	1938
MIN	259	258	726	356	800	1911	1272	1092	670	294	308	213
(WY)	1965	1979	1965	1981	1980	1989	1985	1986	1965	1962	1964	1964

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1929 - 1992
ANNUAL TOTAL	914490	870507	
ANNUAL MEAN	2505	2378	2611
HIGHEST ANNUAL MEAN			3956
LOWEST ANNUAL MEAN			990
HIGHEST DAILY MEAN	6760	Jan 1	62400
LOWEST DAILY MEAN	58	Nov 3	.00
ANNUAL SEVEN-DAY MINIMUM	384	Jul 9	56
INSTANTANEOUS PEAK FLOW		8230	Mar 27
INSTANTANEOUS PEAK STAGE		8.79	Mar 27
INSTANTANEOUS LOW FLOW		d53	May 10
10 PERCENT EXCEEDS	5110	4600	5840
50 PERCENT EXCEEDS	2540	2100	1800
90 PERCENT EXCEEDS	112	152	268

a 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.

b From floodmarks.

c Practically no flow at times, result of regulation.

d Also occurred Sept. 11.

HOUSATONIC RIVER BASIN

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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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF TOTAL (COL / 100 ML) (31649)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	
OCT													
31...	1030	4460	233	7.9	12.0	11.5	2.2	9.6	88	K2	K3	--	
NOV													
22...	1345	5690	250	7.9	12.5	5.5	1.5	11.0	88	K13	K19	K8	
DEC													
19...	1100	4440	210	7.9	<-5.0	2.5	1.4	12.3	88	<1	K1	--	
JAN													
24...	1400	5860	250	7.9	5.0	1.0	1.8	13.4	96	K15	33	28	
MAR													
18...	1510	4070	227	7.7	5.5	2.0	1.7	13.8	100	K4	K1	<1	
APR													
24...	1350	5860	234	8.0	23.0	8.0	1.6	11.9	101	K11	K5	--	
MAY													
21...	1300	4470	213	8.1	30.0	15.5	1.2	10.0	99	K3	K4	K2	
JUN													
17...	1400	4460	234	8.0	26.0	19.0	2.5	8.4	91	K1	<1	--	
JUL													
21...	0950	4550	227	7.8	27.0	20.5	1.3	5.7	63	25	K2	--	
AUG													
17...	1400	2840	240	7.6	20.0	22.0	3.3	5.5	62	K14	K4	--	
SEP													
23...	1030	3300	219	8.4	19.0	21.0	1.3	7.2	81	K5	K11	22	
DATE		COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT													
31...	--	99	25	8.9	9.6	1.7	0	110	90	14	18	<0.10	
NOV													
22...	K11	100	26	9.2	11	2.7	0	116	95	15	15	<0.10	
DEC													
19...	--	71	22	--	21	2.9	0	91	75	25	31	0.10	
JAN													
24...	K7	100	27	9.1	10	1.4	0	110	90	14	11	<0.10	
MAR													
18...	K6	85	21	7.8	12	1.6	0	89	73	16	18	<0.10	
APR													
24...	--	93	23	8.6	8.5	1.4	0	103	84	14	16	0.10	
MAY													
21...	K9	88	23	7.5	7.9	1.3	0	97	80	11	14	<0.10	
JUN													
17...	--	98	25	8.6	9.6	1.6	0	108	89	11	17	0.20	
JUL													
21...	20	92	23	8.4	9.3	1.5	0	103	84	11	16	<0.10	
AUG													
17...	--	96	24	8.8	10	1.8	0	109	89	12	17	<0.10	
SEP													
23...	K14	92	23	8.4	10	1.8	0	98	80	11	15	<0.10	

HOUSATONIC RIVER BASIN

01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT 31...	5.0	129	134	0.270	0.020	0.290	--	0.070	--	0.43	0.50	0.79
NOV 22...	3.1	140	148	0.310	0.030	0.340	0.360	0.090	0.090	0.31	0.40	0.74
DEC 19...	--	140	137	0.350	0.010	0.360	--	0.060	--	0.44	0.50	0.86
JAN 24...	5.9	139	135	--	<0.010	0.590	0.600	0.090	0.090	0.11	0.20	0.79
MAR 18...	4.9	119	121	--	<0.010	0.580	0.580	0.070	0.060	0.23	0.30	0.88
APR 24...	3.2	146	134	0.420	0.010	0.430	--	0.060	--	0.24	0.30	0.73
MAY 21...	3.0	123	117	0.250	0.020	0.270	0.270	0.050	0.030	0.25	0.30	0.57
JUN 17...	2.3	137	136	0.280	0.030	0.310	--	0.100	--	0.30	0.40	0.71
JUL 21...	3.0	124	130	0.370	0.040	0.410	0.430	0.050	0.040	0.25	0.30	0.71
AUG 17...	4.3	133	148	0.380	0.020	0.400	--	0.060	--	0.34	0.40	0.80
SEP 23...	4.2	136	243	--	<0.010	0.220	0.200	0.020	0.010	0.28	0.30	0.52

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 31...	0.040	0.020	<0.010	--	--	--	<1.0	<1	--	2	35
NOV 22...	0.030	0.030	0.020	0.020	<10	14	<1.0	<1	<3	<1	14
DEC 19...	0.030	<0.010	0.010	--	--	--	<1.0	<1	--	6	150
JAN 24...	0.030	0.010	0.020	0.020	20	10	<1.0	<1	<3	<1	32
MAR 18...	0.030	0.020	0.010	<0.010	--	--	<1.0	<1	--	1	--
APR 24...	0.040	<0.010	0.010	--	--	--	<1.0	<1	--	1	22
MAY 21...	0.040	0.030	0.010	0.010	<10	12	<1.0	<1	<3	1	13
JUN 17...	<0.010	0.030	0.020	--	--	--	<1.0	<1	--	<1	24
JUL 21...	<0.010	<0.010	<0.010	<0.010	<10	14	<1.0	<1	<3	1	20
AUG 17...	0.040	<0.010	0.010	--	--	--	<1.0	<1	--	<1	20
SEP 23...	0.010	<0.010	<0.010	<0.010	--	--	<1.0	<1	--	2	--

HOUSATONIC RIVER BASIN

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01205500 HOUSATONIC RIVER AT STEVENSON, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 31...	<1	--	3	--	1	--	--	--	--	<3	4.6
NOV 22...	<1	<4	2	<10	<1	<1	<1.0	51	<6	<10	6.2
DEC 19...	<1	--	--	--	<1	--	--	--	--	17	3.1
JAN 24...	<1	<4	18	<10	<1	<1	<1.0	50	<6	<10	2.3
MAR 18...	<1	--	--	--	2	--	--	--	--	<10	2.9
APR 24...	<1	--	1	--	<1	--	--	--	--	32	2.8
MAY 21...	<1	<4	2	<10	<1	<1	<1.0	43	<6	<10	3.5
JUN 17...	<1	--	2	--	<1	--	--	--	--	<3	4.0
JUL 21...	<1	<4	3	<10	<1	<1	<1.0	48	<6	<10	3.7
AUG 17...	<1	--	44	--	<1	--	--	--	--	6	4.7
SEP 23...	<1	--	--	--	<1	--	--	--	--	<10	5.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 22...	1345	5690	3	46	100
JAN 24...	1400	5860	1	16	100
MAR 18...	1510	4070	1	11	100
MAY 21...	1300	4470	3	36	100

HOUSATONIC RIVER BASIN

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. 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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	27	50	43	e25	e38	108	68	182	19	51	15
2	19	26	46	e35	e24	e36	107	72	107	14	34	13
3	17	25	83	e33	e23	e34	95	130	60	14	20	18
4	16	24	162	57	e21	e33	78	108	33	30	16	20
5	19	23	102	78	e20	e32	69	85	81	40	16	19
6	173	23	76	67	e19	40	71	68	436	60	12	17
7	138	22	63	53	e18	74	93	58	185	45	9.4	17
8	74	22	60	44	e17	92	90	53	177	27	7.9	17
9	48	20	84	39	e17	69	80	54	220	28	77	17
10	37	20	102	e36	e16	70	72	54	138	25	92	20
11	e155	59	85	e33	e16	311	63	49	114	18	50	47
12	e160	67	69	30	e15	197	92	43	83	15	74	35
13	94	53	79	31	e15	112	78	41	42	16	66	22
14	63	43	123	95	e14	80	68	39	32	14	37	19
15	e85	38	131	101	e20	64	58	34	26	33	29	17
16	108	38	95	65	94	53	57	49	21	97	36	17
17	128	32	67	e50	65	e50	142	48	19	64	75	17
18	145	29	e54	e38	44	e48	178	40	17	35	233	16
19	97	31	e48	e34	41	e46	181	35	18	26	131	29
20	68	29	e40	29	52	e49	142	31	37	27	98	18
21	54	36	e44	27	66	e47	126	27	68	26	60	20
22	48	185	e41	e26	60	e45	114	22	51	17	38	23
23	44	330	e38	71	56	e43	97	20	29	19	30	29
24	40	174	e35	158	47	e42	90	20	55	27	25	16
25	36	116	e33	85	35	e41	212	19	75	23	22	16
26	35	87	e32	53	85	76	168	19	59	17	19	19
27	34	71	e32	39	62	545	132	19	42	17	17	24
28	e33	62	e30	34	e45	255	113	18	38	15	20	22
29	e31	58	45	e31	e41	139	90	17	27	14	32	20
30	e29	54	74	e29	---	100	76	13	20	13	25	15
31	e28	---	56	e27	---	114	---	68	---	43	19	---
TOTAL	2077	1824	2079	1571	1073	2975	3140	1421	2492	878	1471.3	614
MEAN	67.0	60.8	67.1	50.7	37.0	96.0	105	45.8	83.1	28.3	47.5	20.5
MAX	173	330	162	158	94	545	212	130	436	97	233	47
MIN	16	20	30	26	14	32	57	13	17	13	7.9	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

	MEAN	33.6	53.7	67.4	63.1	66.9	118	132	71.8	48.1	20.2	21.1	22.4
MAX	133	151	253	257	188	246	270	203	226	90.9	115	198	
(WY)	1990	1989	1974	1978	1981	1977	1987	1989	1972	1972	1969	1975	
MIN	3.83	5.31	4.75	3.64	15.1	40.7	30.1	21.1	6.97	2.69	2.59	3.19	
(WY)	1965	1965	1981	1981	1980	1981	1985	1965	1964	1965	1968	1964	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1957 - 1992

ANNUAL TOTAL	20888.4	21615.3	
ANNUAL MEAN	57.2	59.1	59.7
HIGHEST ANNUAL MEAN			97.4
LOWEST ANNUAL MEAN			21.3
HIGHEST DAILY MEAN	442	Mar 4	545
LOWEST DAILY MEAN	2.2	Jul 20	7.9
ANNUAL SEVEN-DAY MINIMUM	2.9	Jul 16	16
INSTANTANEOUS PEAK FLOW			1110
INSTANTANEOUS PEAK STAGE			6.82
INSTANTANEOUS LOW FLOW			7.3
10 PERCENT EXCEEDS	138		115
50 PERCENT EXCEEDS	41		41
90 PERCENT EXCEEDS	5.0		17
			5.9

a Also occurred on Sept. 1, 1968.

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 from 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Flow regulated by Lake Winchester and East Branch Detention Reservoir.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	14	21	e18	e12	e18	38	25	57	8.0	20	7.0
2	12	13	20	e17	e12	17	37	32	26	10	11	6.2
3	11	11	47	e16	e11	15	31	51	19	10	7.8	12
4	10	12	68	28	e11	e14	27	33	14	17	6.5	9.6
5	14	12	34	29	e10	16	25	27	61	14	6.1	8.0
6	57	11	28	24	e9.6	17	25	24	214	27	5.2	7.0
7	39	11	26	20	e9.2	41	22	21	109	15	4.4	7.5
8	23	11	26	18	e8.8	39	21	20	65	11	3.8	10
9	18	11	34	e17	e8.4	29	20	20	87	15	65	9.7
10	15	11	36	18	e8.1	34	20	18	39	10	23	15
11	60	39	28	16	e7.8	163	22	17	28	8.4	18	20
12	59	30	26	e14	e7.5	84	39	16	22	8.6	20	14
13	28	21	37	16	e7.2	39	28	15	17	8.1	14	14
14	22	18	53	49	e7.0	e30	23	15	14	7.6	14	10
15	27	18	42	30	e6.8	e25	21	14	12	25	12	7.8
16	41	16	30	e25	54	e23	26	19	10	37	16	7.2
17	47	16	24	e21	24	e21	68	16	9.0	16	31	6.8
18	47	14	e22	e19	18	e20	70	15	9.3	13	140	6.5
19	29	14	e21	e17	19	e20	66	13	9.4	10	40	15
20	24	13	e20	e15	18	e19	44	12	24	11	27	8.3
21	20	19	e19	e14	16	e19	36	11	21	9.3	19	7.1
22	19	120	e18	e13	15	e18	34	9.9	16	7.7	15	11
23	21	146	e17	69	15	e18	31	9.6	12	10	13	15
24	18	64	e16	70	14	e17	37	9.4	38	11	11	9.8
25	16	43	e15	35	16	e17	108	9.5	26	8.0	9.8	7.9
26	17	32	e15	22	49	47	65	10	19	7.0	9.6	15
27	16	27	e14	e19	28	227	43	8.9	16	7.6	8.6	14
28	15	25	e14	e17	e22	138	33	7.7	13	6.6	16	12
29	15	23	24	e15	e20	54	30	7.6	11	7.8	20	10
30	14	21	29	e14	---	37	26	6.9	9.1	5.6	11	9.4
31	14	---	20	e13	---	48	---	41	---	42	8.7	---
TOTAL	790	836	844	728	464.4	1324	1116	554.5	1026.8	404.3	626.5	312.8
MEAN	25.5	27.9	27.2	23.5	16.0	42.7	37.2	17.9	34.2	13.0	20.2	10.4
MAX	60	146	68	70	54	227	108	51	214	42	140	20
MIN	10	11	14	13	6.8	14	20	6.9	9.0	5.6	3.8	6.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

MEAN	15.6	22.6	29.7	26.5	29.4	45.5	50.1	28.4	20.1	9.86	11.6	12.6
MAX	66.3	64.6	90.8	100	101	100	124	94.3	76.0	32.9	64.5	61.5
(WY)	1990	1986	1974	1978	1981	1980	1987	1989	1972	1972	1969	1975
MIN	2.62	3.43	4.01	3.00	7.44	19.3	12.1	8.10	3.92	2.12	2.90	2.17
(WY)	1979	1979	1981	1981	1980	1981	1985	1965	1957	1957	1968	1978

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1957 - 1992	
ANNUAL TOTAL	8894.8		9027.3			
ANNUAL MEAN	24.4		24.7		25.1	
HIGHEST ANNUAL MEAN					39.5	
LOWEST ANNUAL MEAN					10.2	
HIGHEST DAILY MEAN	174	Aug 19	227	Mar 27	596	Dec 1 1985
LOWEST DAILY MEAN	1.3	Jul 20	3.8	Aug 8	.80	Oct 5 1957
ANNUAL SEVEN-DAY MINIMUM	2.0	Jul 16	6.4	Aug 2	1.1	Sep 30 1957
INSTANTANEOUS PEAK FLOW			544	Aug 9	1500	Aug 5 1969
INSTANTANEOUS PEAK STAGE			2.81	Aug 9	4.85	Aug 5 1969
INSTANTANEOUS LOW FLOW			3.3	Aug 8	8.30	Aug 19 1963
10 PERCENT EXCEEDS	49		47		52	
50 PERCENT EXCEEDS	18		17		14	
90 PERCENT EXCEEDS	3.5		8.2		3.4	

a Also occurred on Aug. 24, 1964.

e Estimated.

HOUSATONIC RIVER BASIN

01206900 NAUGATUCK RIVER AT THOMASTON, CT

LOCATION.--Lat 41°40'25", long 73°04'12", Litchfield County, Hydrologic Unit 01100005, on left bank at downstream side of bridge on U.S. Highways 6 and 202 at Thomaston, 1.5 mi 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Slight diurnal fluctuation at low flow. Flow regulated by Thomaston, Hall Meadow Brook and East Branch Detention Reservoirs, and Lake Winchester.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	99	170	146	e100	161	340	208	465	64	231	60
2	82	98	161	e135	e95	e145	336	201	301	56	112	52
3	76	92	287	e125	e90	e135	288	369	166	54	73	69
4	76	87	628	166	e85	e130	250	278	110	107	61	85
5	69	84	363	226	e82	e125	226	230	157	113	55	69
6	305	82	264	258	e79	e120	209	196	953	181	47	62
7	363	84	231	175	e76	215	226	175	1470	129	41	58
8	189	82	223	e150	e73	379	222	162	937	87	36	58
9	141	79	280	e135	e71	250	207	167	570	90	231	56
10	117	76	317	e125	e69	162	197	159	317	78	216	54
11	166	215	260	e120	e67	641	193	148	246	61	166	120
12	490	249	226	e115	e65	1170	256	135	197	59	368	89
13	325	186	257	e110	e63	405	220	129	141	74	168	67
14	180	148	343	241	e61	270	194	123	112	56	128	55
15	141	130	400	307	e60	e220	173	111	96	73	103	48
16	384	127	271	207	409	e190	180	154	82	431	107	45
17	360	114	207	e185	251	e180	373	148	74	183	231	43
18	532	103	e185	e165	164	e170	490	127	68	122	747	41
19	293	103	e170	e145	153	e163	501	112	68	90	738	62
20	223	104	e165	e130	157	e155	446	100	104	77	273	47
21	181	108	e160	e125	164	e150	333	90	159	74	187	41
22	160	440	e150	e120	151	e145	294	80	126	59	136	44
23	149	709	e145	191	145	e140	264	71	89	61	110	106
24	139	711	e140	679	140	e137	237	66	183	79	94	57
25	129	930	e130	323	125	e133	468	68	250	68	84	43
26	126	327	e125	227	340	e131	527	64	163	56	76	61
27	122	233	120	e180	300	e130	470	64	132	58	70	90
28	112	211	115	e135	219	1260	337	61	119	51	58	83
29	102	197	150	e125	201	1100	256	57	90	46	161	65
30	98	182	248	e115	---	800	222	50	71	63	105	47
31	97	---	183	e105	---	408	---	135	---	182	72	---
TOTAL	6016	6390	7074	5691	4055	9920	8935	4238	8016	2982	5285	1877
MEAN	194	213	228	184	140	320	298	137	267	96.2	170	62.6
MAX	532	930	628	679	409	1260	527	369	1470	431	747	120
MIN	69	76	115	105	60	120	173	50	68	46	36	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

MEAN	123	177	222	216	247	405	389	224	164	78.8	79.5	75.3
MAX	524	413	709	757	776	785	966	721	658	331	429	472
(WY)	1990	1973	1974	1979	1981	1979	1987	1989	1982	1972	1969	1975
MIN	21.1	23.9	51.4	31.1	57.0	158	103	75.0	33.8	18.4	18.5	13.8
(WY)	1965	1965	1981	1981	1980	1989	1985	1965	1964	1962	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1961 - 1992

ANNUAL TOTAL	70570	70479	
ANNUAL MEAN	193	193	
HIGHEST ANNUAL MEAN			200
LOWEST ANNUAL MEAN			300
			76.6
HIGHEST DAILY MEAN	1240	Mar 5	1470
LOWEST DAILY MEAN	13	Jul 21	36
ANNUAL SEVEN-DAY MINIMUM	15	Jul 15	46
INSTANTANEOUS PEAK FLOW			1670
INSTANTANEOUS PEAK STAGE			4.68
INSTANTANEOUS LOW FLOW			1.16
10 PERCENT EXCEEDS	382		364
50 PERCENT EXCEEDS	150		140
90 PERCENT EXCEEDS	25		61
			426
			111
			26

a Occurred when Army Corps Dam upstream shut gates for flood control.

b Also occurred Sept. 21, 27, 28, 1964.

e Estimated

HOUSATONIC RIVER BASIN

173

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (MG/L) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
28...	1345	162	149	7.4	15.5	14.0	1.7	10.1	97	29	25
NOV											
15...	0940	146	150	7.4	4.0	4.0	1.0	12.9	99	180	25
DEC											
18...	1030	285	136	7.1	0.0	0.0	1.1	14.3	98	K4	<1
JAN											
22...	1415	165	178	7.1	4.0	0.5	1.9	15.5	106	K1	K18
MAR											
20...	1315	280	173	7.3	6.0	2.0	1.2	13.0	96	140	23
APR											
23...	0915	380	129	7.3	21.0	11.0	0.70	11.0	100	400	112
MAY											
19...	1245	150	160	7.4	23.0	15.5	2.2	8.8	87	39	K4
JUN											
18...	1300	130	185	7.4	23.0	19.5	2.3	8.1	88	21	K4
JUL											
16...	1405	550	116	7.4	25.5	18.5	4.6	9.5	102	4400	1200
AUG											
05...	0900	107	182	7.5	24.5	19.0	2.9	7.9	85	100	K4
SEP											
16...	1350	54	208	7.8	33.0	20.0	1.4	9.3	101	K2	K1

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
28...	35	9.3	2.9	14	2.1	0	29	24	14	25
NOV										
15...	33	8.7	2.7	15	2.3	0	26	21	15	23
DEC										
18...	30	8.0	2.5	12	1.7	0	21	17	12	16
JAN										
22...	35	9.3	2.8	17	2.1	0	24	20	19	29
MAR										
20...	30	8.0	2.5	17	1.7	0	18	15	13	28
APR										
23...	27	6.9	2.3	11	1.5	0	18	15	12	21
MAY										
19...	35	9.3	2.9	17	2.0	0	26	21	14	26
JUN										
18...	39	11	2.9	19	2.3	0	27	22	26	36
JUL										
16...	26	6.9	2.1	12	--	0	21	17	9.7	17
AUG										
05...	40	11	3.0	17	2.2	0	29	24	16	26
SEP										
16...	61	18	3.8	37	3.6	0	33	27	18	30

HOUSATONIC RIVER BASIN

01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 28...	0.20	5.1	81	94	0.670	0.020	0.690	0.100	0.30	0.40
NOV 15...	0.20	6.1	88	87	0.920	0.010	0.930	0.060	0.34	0.40
DEC 18...	0.10	6.8	72	89	0.630	0.010	0.640	0.100	0.20	0.30
JAN 22...	0.20	6.7	96	91	1.19	0.010	1.20	0.180	0.42	0.60
MAR 20...	0.20	5.2	88	98	0.840	0.010	0.850	0.100	0.30	0.40
APR 23...	0.20	4.9	85	84	0.460	0.010	0.470	0.090	0.21	0.30
MAY 19...	0.20	3.9	98	104	1.60	0.100	1.70	0.490	0.41	0.90
JUN 18...	0.30	5.3	105	113	0.760	0.040	0.800	0.280	0.32	0.60
JUL 16...	0.10	4.4	68	83	0.550	0.030	0.580	0.110	0.39	0.50
AUG 05...	0.20	4.6	106	116	0.680	0.040	0.720	0.180	0.42	0.60
SEP 16...	0.20	3.7	114	126	0.950	0.050	1.00	0.140	0.46	0.60

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 28...	1.1	0.120	0.080	0.070	<1	<1.0	1	<1	10	7
NOV 15...	1.3	0.110	0.080	0.080	<1	<1.0	2	<1	--	6
DEC 18...	0.94	0.050	0.050	0.040	<1	<1.0	<1	<1	--	5
JAN 22...	1.8	0.140	0.100	0.080	<1	<1.0	1	<1	16	16
MAR 20...	1.2	0.070	0.060	0.050	<1	<1.0	2	2	6	8
APR 23...	0.77	0.050	0.020	0.040	<1	<1.0	<1	<1	7	5
MAY 19...	2.6	0.100	0.110	0.100	<1	<1.0	3	<1	8	5
JUN 18...	1.4	0.120	0.150	0.140	<1	<1.0	<1	<1	8	6
JUL 16...	1.1	0.150	0.070	0.080	<1	<1.0	1	<1	13	3
AUG 05...	1.3	0.110	0.070	0.070	<1	<1.0	2	<1	8	6
SEP 16...	1.6	0.140	0.250	0.100	<1	<1.0	3	<1	6	9

HOUSATONIC RIVER BASIN

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01208049 NAUGATUCK RIVER NEAR WATERVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 28...	310	120	10	<1	40	8	7	<10	13	4.3
NOV 15...	280	130	3	<1	31	11	9	30	8	4.5
DEC 18...	230	120	<1	<1	41	8	7	20	16	3.1
JAN 22...	260	120	2	<1	54	13	13	20	15	3.1
MAR 20...	210	71	1	<1	50	9	8	20	18	2.8
APR 23...	230	86	2	<1	48	5	5	30	12	3.0
MAY 19...	510	210	2	<1	73	11	11	20	10	4.2
JUN 18...	520	200	2	1	66	12	14	10	6	4.2
JUL 16...	880	150	5	<1	33	6	4	20	11	--
AUG 05...	630	210	2	2	54	11	11	100	13	4.0
SEP 16...	340	99	2	<1	73	18	7	10	20	4.2

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. U. S. Army Corps of Engineers satellite telemetry for stage and discharge is on site. 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, 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.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	252	459	393	e320	423	936	543	956	256	489	188
2	275	230	444	e345	e290	e410	861	530	720	230	286	162
3	281	219	854	e330	e280	e395	774	730	460	220	217	272
4	268	215	1590	462	e270	e380	701	657	340	344	233	307
5	229	223	1010	557	e260	e370	639	566	1250	342	226	245
6	575	226	732	552	e250	e360	587	500	6300	397	206	186
7	677	237	630	461	e245	473	559	449	3240	390	190	175
8	453	228	592	412	e240	763	556	406	2130	313	158	182
9	340	207	636	393	e230	632	541	463	1210	301	541	195
10	300	183	807	397	e225	556	535	439	849	286	530	218
11	274	323	684	367	e220	1590	510	412	628	224	453	290
12	583	515	590	304	e215	1690	539	367	497	193	545	222
13	578	414	614	295	e210	1100	544	325	409	231	349	195
14	409	328	772	577	234	700	474	318	339	204	278	178
15	406	316	832	718	261	e600	440	296	304	492	240	152
16	780	287	662	461	946	e520	449	359	298	1140	260	166
17	759	265	544	345	662	e500	870	386	290	590	428	142
18	923	245	e470	e310	480	e480	1160	329	271	400	2190	138
19	660	250	e420	e290	432	e465	1180	316	243	332	1350	142
20	515	265	e390	e275	432	e450	976	291	316	281	676	145
21	448	310	447	e260	405	e440	807	266	355	245	454	133
22	405	1170	447	e250	392	e430	719	238	313	200	360	155
23	374	2150	433	817	375	e420	690	213	256	210	301	269
24	352	1350	398	1630	372	e415	661	200	516	227	256	181
25	337	1240	356	823	365	e410	981	191	835	206	243	150
26	327	900	325	551	792	572	1030	185	490	190	228	195
27	320	586	e305	442	825	3110	930	183	510	204	201	219
28	303	532	e290	434	618	2370	774	177	401	183	204	215
29	290	505	375	e390	543	1870	641	175	319	213	357	181
30	287	477	570	e360	---	1520	578	171	344	316	278	158
31	278	---	475	e340	---	1170	---	297	---	233	202	---
TOTAL	13320	14648	18153	14541	11389	25584	21642	10978	25389	9593	12929	5756
MEAN	430	488	586	469	393	825	721	354	846	309	417	192
MAX	923	2150	1590	1630	946	3110	1180	730	6300	1140	2190	307
MIN	229	183	290	250	210	360	440	171	243	183	158	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1992, BY WATER YEAR (WY)

	MEAN	302	451	558	586	586	1005	961	612	401	240	242	232
MAX	2480	1890	1660	2307	1436	2227	2467	2098	1973	957	2920	1301	
(WY)	1956	1956	1974	1979	1981	1983	1983	1989	1982	1938	1955	1938	
MIN	55.3	63.9	113	118	204	450	273	225	122	72.6	72.0	68.2	
(WY)	1931	1932	1936	1981	1934	1989	1985	1941	1957	1966	1966	1931	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1919 - 1992

ANNUAL TOTAL	182125			183922								
ANNUAL MEAN	499			503						514		
HIGHEST ANNUAL MEAN										830		1973
LOWEST ANNUAL MEAN										237		1965
HIGHEST DAILY MEAN	2410	Mar 5		6300	Jun 6					56400	Aug 19	1955
LOWEST DAILY MEAN	93	Jul 20		133	Sep 21					40	Oct 5	1930
ANNUAL SEVEN-DAY MINIMUM	96	Jul 16		145	Sep 15					47	Jul 11	1971
INSTANTANEOUS PEAK FLOW				10300	Jun 6					a106000	Aug 19	1955
INSTANTANEOUS PEAK STAGE				10.86	Jun 6					b25.70	Aug 19	1955
INSTANTANEOUS LOW FLOW				125	Sep 22					24	Oct 21	1935
10 PERCENT EXCEEDS	992			856						1100		
50 PERCENT EXCEEDS	405			383						313		
90 PERCENT EXCEEDS	136			202						104		

a From rating curve extended above 9,000 ft³/s, on basis of slope-area measurements of peak flow at gage heights of 12.4 and 25.7 ft, use and datum then in use.

b From floodmarks.

c Also occurred on Oct. 12, 1930 and Sept. 7, 1936.

e Estimated

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED CENT SATUR- ATION (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT ATON) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
28...	1200	297	298	7.5	15.0	14.0	1.2	10.6	102	84	53
NOV											
15...	1210	323	304	7.4	11.0	4.0	1.4	13.2	101	30000	3500
DEC											
18...	1230	470	243	7.2	1.0	1.5	1.4	14.4	103	100	900
JAN											
22...	1245	250	309	7.3	3.0	1.5	2.7	16.3	115	550	960
MAR											
20...	1120	450	264	6.9	6.0	3.0	1.8	14.3	107	150	160
APR											
23...	1100	696	204	7.7	22.0	13.0	0.90	11.4	108	160	20
MAY											
19...	1110	320	299	7.6	22.0	15.5	1.9	10.5	104	63	K5
JUN											
18...	1140	275	362	7.6	22.5	20.5	0.80	9.9	109	1000	K11
JUL											
16...	1145	1050	190	7.4	24.5	21.0	7.6	9.0	101	2500	330
AUG											
06...	0930	202	323	7.5	22.5	18.5	2.6	8.8	93	220	K14
SEP											
16...	1215	172	334	7.8	25.0	21.5	3.0	10.4	117	4400	41

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
28...	51	12	5.0	34	3.0	0	31	25	31	44
NOV										
15...	46	13	3.3	35	2.7	0	33	27	33	51
DEC										
18...	39	11	2.9	27	2.2	0	26	21	24	40
JAN										
22...	49	14	3.3	34	2.7	0	32	26	26	53
MAR										
20...	42	12	2.8	28	2.3	0	24	20	23	48
APR										
23...	35	9.7	2.6	21	1.8	0	22	18	19	32
MAY										
19...	49	14	3.4	35	2.8	0	29	24	34	51
JUN										
18...	54	16	3.4	43	3.2	0	34	28	35	69
JUL										
16...	38	11	2.5	20	2.5	0	24	20	18	31
AUG										
06...	58	17	3.8	34	3.6	0	41	34	33	52
SEP										
16...	43	12	3.2	21	3.0	0	38	31	29	58

HOUSATONIC RIVER BASIN

01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 28...	0.20	7.1	180	181	1.61	0.090	1.70	0.870	0.53	1.4
NOV 15...	0.20	7.7	181	178	1.26	0.040	1.30	1.40	0.90	2.3
DEC 18...	0.20	8.0	138	156	0.800	0.030	0.830	0.800	0.40	1.2
JAN 22...	0.20	8.3	163	156	1.49	0.010	1.50	1.30	0.60	1.9
MAR 20...	<0.10	6.2	130	149	1.07	0.030	1.10	0.690	0.31	1.0
APR 23...	0.20	5.7	121	116	0.700	0.020	0.720	0.400	0.30	0.70
MAY 19...	<0.10	5.3	166	178	0.740	0.020	0.760	0.170	0.43	0.60
JUN 18...	0.20	6.5	205	210	1.20	0.100	1.30	1.20	0.60	1.8
JUL 16...	0.10	4.9	113	172	1.33	0.070	1.40	0.330	0.67	1.0
AUG 06...	0.30	6.6	178	207	1.66	0.240	1.90	1.40	0.60	2.0
SEP 16...	0.30	7.2	186	209	1.65	0.150	1.80	0.390	0.71	1.1

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 28...	3.1	0.320	0.280	0.230	<1	<1.0	<1	<1	20	15
NOV 15...	3.6	0.630	0.540	0.510	<1	<1.0	1	<1	--	20
DEC 18...	2.0	0.230	0.180	0.190	<1	<1.0	<1	<1	--	10
JAN 22...	3.4	0.530	0.470	0.450	<1	<1.0	<1	<1	19	14
MAR 20...	2.1	0.160	0.140	0.130	<1	<1.0	2	1	12	10
APR 23...	1.4	0.200	0.200	0.150	<1	<1.0	<1	<1	11	8
MAY 19...	1.4	0.110	0.080	0.100	<1	<1.0	<1	<1	18	11
JUN 18...	3.1	0.290	0.300	0.200	<1	<1.0	1	2	13	11
JUL 16...	2.4	0.210	0.060	0.070	<1	<1.0	3	<1	40	9
AUG 06...	3.9	0.320	0.300	0.250	<1	<1.0	2	<1	17	10
SEP 16...	2.9	0.350	0.110	0.230	<1	<1.0	3	<1	7	9

HOUSATONIC RIVER BASIN

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01208500 NAUGATUCK RIVER AT BEACON FALLS, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 28...	300	140	3	<1	68	7	7	20	27	--
NOV 15...	350	160	1	<1	110	10	8	50	34	5.5
DEC 18...	330	160	<1	<1	88	8	6	40	33	3.5
JAN 22...	370	160	2	<1	120	12	11	50	44	3.8
MAR 20...	290	120	2	<1	87	44	6	40	36	3.5
APR 23...	300	100	2	<1	52	5	5	30	25	3.6
MAY 19...	520	180	2	<1	75	7	8	30	21	3.7
JUN 18...	410	200	1	<1	81	7	7	40	32	5.0
JUL 16...	1800	140	12	<1	39	10	6	50	15	7.7
AUG 06...	640	110	4	<1	88	9	9	120	30	6.8
SEP 16...	450	120	2	<1	31	--	18	30	21	6.0

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
28...	1000	480	255	7.5	13.5	15.0	1.7	10.3	101	96	K17
NOV											
15...	1400	385	265	7.3	13.0	4.0	1.6	12.2	92	10000	1200
DEC											
18...	1430	670	238	7.2	0.5	1.5	1.6	14.3	102	170	900
JAN											
22...	1030	380	308	7.1	2.0	1.0	2.6	16.2	113	3000	3700
MAR											
20...	1000	580	317	7.1	5.0	3.0	2.4	13.8	103	6200	1200
APR											
23...	1300	820	197	7.6	23.0	14.0	1.0	11.7	114	96	23
MAY											
19...	0900	385	266	7.3	21.0	15.5	2.3	8.9	87	1300	108
JUN											
18...	0940	295	295	7.5	21.5	20.0	0.60	8.9	97	3800	228
JUL											
16...	0915	2350	141	7.4	25.5	19.5	8.3	8.7	95	20000	3600
AUG											
05...	1330	285	269	7.8	29.0	22.0	2.3	9.7	110	400	34
SEP											
16...	1015	210	332	7.6	24.5	20.5	1.6	9.6	106	15000	1000

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
28...	49	12	4.5	29	3.0	0	29	24	26	47
NOV										
15...	46	13	3.3	30	3.4	0	36	30	31	43
DEC										
18...	39	11	2.7	26	2.2	0	28	23	26	38
JAN										
22...	46	13	3.2	34	2.9	0	35	29	30	48
MAR										
20...	41	12	2.7	38	2.2	0	26	21	25	64
APR										
23...	34	9.3	2.6	20	1.7	0	22	18	20	28
MAY										
19...	48	14	3.2	30	2.8	0	29	24	29	43
JUN										
18...	51	15	3.3	33	3.0	0	31	25	30	49
JUL										
16...	29	8.5	1.9	14	2.0	0	18	14	14	21
AUG										
05...	49	14	3.3	30	3.2	0	26	21	28	46
SEP										
16...	55	16	3.6	37	3.9	0	33	27	33	54

HOUSATONIC RIVER BASIN

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01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 28...	0.30	7.7	140	164	1.43	0.070	1.50	0.250	0.45	0.70
NOV 15...	0.30	7.7	166	173	1.55	0.050	1.60	1.20	1.1	2.3
DEC 18...	0.20	8.4	125	146	0.800	0.020	0.820	1.00	0.40	1.4
JAN 22...	0.20	8.7	160	168	1.27	0.030	1.30	1.90	0.70	2.6
MAR 20...	<0.10	6.6	165	173	1.07	0.030	1.10	0.960	0.34	1.3
APR 23...	0.20	5.9	119	121	0.890	0.030	0.920	0.380	0.22	0.60
MAY 19...	0.30	5.6	149	164	1.38	0.120	1.50	0.960	0.44	1.4
JUN 18...	0.30	6.9	159	170	1.62	0.180	1.80	0.480	0.32	0.80
JUL 16...	<0.10	4.3	77	121	0.780	0.050	0.830	0.240	0.36	0.60
AUG 05...	0.20	6.6	161	172	2.11	0.190	2.30	0.380	0.62	1.0
SEP 16...	0.30	7.1	182	191	2.50	0.200	2.70	0.550	0.45	1.0

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 28...	2.2	0.280	0.230	0.200	<1	<1.0	1	<1	25	19
NOV 15...	3.9	0.550	0.450	0.440	<1	<1.0	2	<1	--	17
DEC 18...	2.2	0.210	0.160	0.160	<1	<1.0	<1	<1	--	13
JAN 22...	3.9	0.620	0.580	0.560	<1	<1.0	1	<1	21	17
MAR 20...	2.4	0.160	0.130	0.120	<1	<1.0	2	1	16	13
APR 23...	1.5	0.130	0.160	0.120	<1	<1.0	<1	<1	14	11
MAY 19...	2.9	0.210	0.170	0.200	<1	<1.0	<1	<1	54	17
JUN 18...	2.6	0.160	0.170	0.150	<1	<1.0	<1	<1	22	18
JUL 16...	1.4	0.110	0.070	0.070	<1	<1.0	6	<1	44	9
AUG 05...	3.3	0.250	0.170	0.160	<1	<1.0	2	<1	26	15
SEP 16...	3.7	0.280	0.250	0.240	<1	<1.0	3	<1	14	18

HOUSATONIC RIVER BASIN

01208736 NAUGATUCK RIVER AT ANSONIA, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 28...	380	130	3	<1	62	8	6	20	18	5.1
NOV 15...	340	140	3	<1	98	9	7	60	45	6.0
DEC 18...	320	120	<1	<1	85	14	5	60	42	3.7
JAN 22...	380	150	2	<1	120	7	8	50	45	4.2
MAR 20...	300	100	2	<1	88	9	5	40	35	4.3
APR 23...	290	100	1	<1	52	5	5	30	22	3.5
MAY 19...	630	180	4	<1	85	22	5	50	24	4.6
JUN 18...	360	150	2	<1	41	8	7	30	41	4.5
JUL 16...	2400	110	21	<1	25	9	4	70	22	9.2
AUG 05...	630	120	4	<1	67	6	6	50	16	6.0
SEP 16...	310	75	2	<1	72	7	7	20	16	4.7

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.

RESERVOIRS IN HOUSATONIC RIVER BASIN--Continued

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.

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.

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.--October 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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. Prior to June 22, 1988, stage sometimes affected by tide.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	5.0	11	e9.9	e8.0	8.5	15	8.5	22	8.8	11	7.3
2	2.5	5.0	12	e9.5	e7.8	8.3	14	8.7	10	6.7	7.1	6.9
3	2.4	5.0	82	10	e7.6	8.2	13	9.5	7.0	8.2	6.8	278
4	2.3	5.1	36	19	e7.4	7.8	12	8.0	5.9	25	24	40
5	6.8	4.8	18	12	e7.2	7.8	12	8.1	211	8.3	7.0	20
6	24	4.8	18	11	e7.0	7.4	11	7.5	264	7.9	6.0	17
7	3.1	4.9	15	9.9	e6.8	25	11	7.4	36	6.6	5.6	15
8	2.4	5.0	14	9.2	e6.7	12	10	15	53	6.2	5.0	14
9	2.2	4.8	18	13	e6.6	9.2	9.8	13	26	17	108	13
10	2.2	5.2	31	10	e6.5	18	9.6	7.8	19	6.4	12	22
11	14	20	16	8.8	e6.4	76	12	7.1	16	5.8	226	14
12	4.5	4.0	14	e8.0	e6.3	18	9.1	6.7	15	6.8	29	11
13	2.3	2.8	29	e7.8	e6.2	e14	8.3	6.7	14	5.9	17	9.5
14	1.9	2.6	20	24	9.5	e13	8.3	6.1	12	6.1	23	9.0
15	55	2.6	16	11	70	e12	8.2	5.6	11	39	15	8.5
16	9.7	2.6	e15	10	46	e11	16	12	10	18	45	8.8
17	24	2.6	e14	e9.6	13	e10	22	6.2	9.4	6.9	46	9.1
18	7.2	2.8	e14	e9.2	12	e9.8	18	5.7	8.7	6.6	187	8.6
19	4.6	3.3	13	e8.8	12	13	18	5.2	11	5.9	31	8.7
20	3.6	5.4	13	e8.4	11	13	11	5.0	13	5.4	22	7.9
21	3.4	17	14	e8.2	10	12	11	4.9	8.4	5.3	18	7.6
22	3.6	92	13	e8.0	9.5	11	17	4.9	7.7	5.0	16	13
23	3.1	46	12	55	9.3	13	11	4.7	7.3	56	14	14
24	2.9	25	e11	22	9.6	11	9.9	5.3	32	8.1	13	6.4
25	2.7	15	11	13	13	11	22	4.5	9.2	5.9	12	6.3
26	3.2	13	10	11	30	51	11	4.3	7.3	15	11	22
27	3.4	12	e9.7	e10	13	47	10	4.2	68	9.8	11	14
28	3.5	11	e9.4	e9.8	e11	20	9.7	4.1	12	6.0	24	8.6
29	3.6	10	36	e9.4	e9.0	17	9.2	3.9	8.9	31	18	7.0
30	3.7	9.9	15	e9.0	---	16	8.7	3.8	7.7	13	8.8	6.3
31	4.3	---	11	8.2	---	21	---	149	---	25	8.1	---
TOTAL	214.8	349.2	571.1	382.7	378.4	532.0	367.8	353.4	942.5	387.6	987.4	633.5
MEAN	6.93	11.6	18.4	12.3	13.0	17.2	12.3	11.4	31.4	12.5	31.9	21.1
MAX	55	92	82	55	70	76	22	149	264	56	226	278
MIN	1.9	2.6	9.4	7.8	6.2	7.4	8.2	3.8	5.9	5.0	5.0	6.3
CFSM	.65	1.10	1.74	1.16	1.23	1.62	1.16	1.08	2.96	1.18	3.00	1.99
IN.	.75	1.23	2.00	1.34	1.33	1.87	1.29	1.24	3.31	1.36	3.47	2.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	MEAN	11.4	15.8	17.3	21.5	17.7	22.1	24.5	22.9	17.7	9.40	11.6	8.82
MAX	34.1	34.0	41.3	74.1	34.1	45.0	75.1	71.2	65.1	23.1	31.9	21.1	
(WY)	1990	1989	1978	1979	1979	1983	1983	1989	1982	1984	1992	1992	
MIN	3.86	5.81	4.96	3.68	5.07	8.78	6.08	6.28	4.08	2.93	1.38	3.04	
(WY)	1983	1979	1983	1981	1980	1985	1985	1986	1988	1987	1981	1986	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1978 - 1992	
ANNUAL TOTAL	5854.8		6100.4			
ANNUAL MEAN	16.0		16.7		16.7	
HIGHEST ANNUAL MEAN					24.3	
LOWEST ANNUAL MEAN					7.26	
HIGHEST DAILY MEAN	442	Aug 19	278	Sep 3	858	Jan 21 1979
LOWEST DAILY MEAN	1.9	Oct 14	1.9	Oct 14	.53	Sep 13 1980
ANNUAL SEVEN-DAY MINIMUM	2.8	Nov 13	2.8	Nov 13	.74	Sep 9 1980
INSTANTANEOUS PEAK FLOW			1680	Sep 3	b2170	Apr 9 1980
INSTANTANEOUS PEAK STAGE			9.71	Sep 3	b11.65	Apr 9 1980
INSTANTANEOUS LOW FLOW			a1.9	Oct 5	.16	Oct 2 1980
ANNUAL RUNOFF (CFSM)	1.51		1.57		1.58	
ANNUAL RUNOFF (INCHES)	20.55		21.41		21.43	
10 PERCENT EXCEEDS	25		25		31	
50 PERCENT EXCEEDS	10		9.9		9.3	
90 PERCENT EXCEEDS	3.1		4.5		2.7	

a Also occurred Oct. 11, 13-15.

b Site and datum then in use.

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	4.0	13	e14	e12	e17	33	26	75	20	23	20
2	8.1	3.5	13	e13	e12	e17	30	28	30	17	16	17
3	7.4	5.5	51	e13	e11	e16	28	27	23	17	14	149
4	6.6	5.3	62	19	e11	e16	38	26	18	31	24	115
5	7.0	5.8	30	19	e11	e15	39	25	72	24	20	45
6	23	5.7	26	16	e10	15	35	24	328	20	15	36
7	12	5.8	23	14	e10	25	26	24	89	18	14	33
8	8.6	6.7	22	13	e10	28	25	26	81	16	13	31
9	7.4	7.8	24	15	e9.7	21	23	34	63	24	69	28
10	6.9	7.0	58	16	e9.4	22	22	26	48	18	33	32
11	9.5	11	43	14	e9.0	98	24	24	41	16	98	32
12	10	14	24	12	e8.8	109	22	23	38	15	85	25
13	7.4	11	28	e11	e8.6	35	20	23	35	15	65	22
14	6.2	8.6	30	22	11	e28	19	21	31	14	74	21
15	14	7.4	24	21	21	e25	18	19	29	19	67	20
16	26	6.9	21	15	75	e23	21	21	20	40	85	20
17	20	21	19	12	29	e22	33	19	19	22	98	19
18	20	32	e17	e11	24	e21	33	17	18	20	286	16
19	14	31	16	e9.8	22	26	37	15	19	17	113	16
20	10	31	15	e9.3	20	24	29	14	23	15	87	13
21	8.5	32	17	e8.8	19	23	27	14	20	14	77	11
22	7.8	62	16	e8.5	18	23	32	13	18	13	73	24
23	7.3	112	e15	24	17	24	30	11	17	28	71	26
24	6.0	52	e14	49	17	21	26	12	33	23	68	16
25	5.3	45	e13	22	19	21	37	10	24	15	66	15
26	6.0	39	e12	e16	37	32	29	10	18	18	65	25
27	5.8	20	e12	e14	28	100	25	10	63	21	63	24
28	12	15	e11	e14	e21	49	23	9.7	33	15	59	21
29	3.0	14	24	e13	e19	39	22	9.5	22	16	55	21
30	5.7	12	28	e13	---	34	21	9.2	19	33	40	14
31	8.6	---	e17	e12	---	38	---	67	---	25	36	---
TOTAL	309.2	634.0	738	483.4	529.5	1007	827	637.4	1367	619	1972	907
MEAN	9.97	21.1	23.8	15.6	18.3	32.5	27.6	20.6	45.6	20.0	63.6	30.2
MAX	26	112	62	49	75	109	39	67	328	40	286	149
MIN	3.0	3.5	11	8.5	8.6	15	18	9.2	17	13	13	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	15.9	26.7	42.8	51.6	46.8	70.1	81.1	58.4	36.3	14.7	13.0	11.4								
MAX	60.9	69.1	102	176	103	168	276	216	195	71.7	63.6	33.9								
(WY)	1990	1990	1973	1979	1973	1983	1983	1989	1982	1984	1992	1974								
MIN	2.98	8.40	7.04	3.13	9.99	19.9	12.1	10.2	2.74	.93	1.72	2.16								
(WY)	1985	1985	1983	1981	1980	1985	1985	1986	1987	1987	1987	1983								

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1973 - 1992	
ANNUAL TOTAL	10343.4		10030.5			
ANNUAL MEAN	28.3		27.4		39.0	
HIGHEST ANNUAL MEAN					62.4	
LOWEST ANNUAL MEAN					12.0	
HIGHEST DAILY MEAN	255	Aug 19	328	Jun 6	1300	Jun 6 1982
LOWEST DAILY MEAN	1.9	Jul 22	3.0	Oct 29	.00	Nov 7 1979
ANNUAL SEVEN-DAY MINIMUM	2.1	Jul 16	5.1	Oct 29	.71	Jul 16 1987
INSTANTANEOUS PEAK FLOW			733	Jun 6	1800	Apr 10 1980
INSTANTANEOUS PEAK STAGE			5.06	Jun 6	7.15	Apr 10 1980
INSTANTANEOUS LOW FLOW			2.7	Oct 29	.00	Nov 7 1979
10 PERCENT EXCEEDS	60		58		87	
50 PERCENT EXCEEDS	19		20		19	
90 PERCENT EXCEEDS	3.6		8.9		3.2	

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 and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.5	8.2	e8.6	e6.0	8.8	16	8.0	74	4.6	7.9	5.0
2	3.1	3.5	8.0	e8.2	e5.8	e7.7	14	8.0	18	4.0	4.6	4.3
3	2.9	3.4	37	e8.0	e5.6	e7.5	13	7.9	9.3	3.5	3.3	63
4	2.9	3.0	51	12	e5.4	e7.3	12	7.1	6.9	9.7	6.1	99
5	2.5	2.7	20	12	e5.2	e7.1	11	6.8	32	8.9	5.9	28
6	4.8	2.6	16	10	e5.0	e7.0	9.9	6.4	191	6.4	3.5	17
7	4.4	2.6	14	8.9	e4.8	14	9.6	6.2	49	5.0	2.5	14
8	3.4	2.8	14	8.2	e4.6	17	9.3	6.5	46	3.7	1.9	12
9	2.9	2.6	13	8.7	e4.4	12	8.8	13	37	5.6	34	10
10	2.6	2.6	25	9.8	e4.2	11	9.0	9.1	18	4.0	15	14
11	2.7	4.8	16	8.5	e4.0	52	10	7.7	13	3.0	39	16
12	3.6	5.2	13	7.6	e3.8	26	9.5	6.6	10	2.4	46	11
13	2.8	4.5	16	7.7	e3.6	16	8.3	6.2	8.8	2.3	12	8.4
14	2.3	3.9	20	14	5.2	13	7.7	5.9	7.4	2.0	13	7.5
15	4.3	3.5	15	14	9.8	e10	7.5	5.0	6.4	2.7	9.8	6.6
16	9.3	3.4	12	8.8	54	e9.4	8.6	6.6	5.4	11	18	6.1
17	7.6	3.0	e9.7	e6.8	19	e9.2	16	6.7	5.0	5.8	33	5.6
18	8.2	2.9	e8.9	e5.9	13	e9.0	16	5.6	4.5	4.2	154	5.4
19	5.9	2.9	e8.0	e5.0	13	11	18	5.3	4.6	3.6	48	5.1
20	4.5	2.9	7.9	e4.7	12	12	13	4.5	6.2	2.8	23	4.7
21	3.9	3.5	9.2	e4.6	10	12	11	3.9	5.2	2.2	16	4.4
22	3.6	20	9.4	e4.5	9.5	11	15	3.4	4.4	1.9	13	4.9
23	3.4	61	9.3	16	9.2	11	14	3.0	3.9	5.6	11	8.9
24	3.4	23	9.0	33	9.2	11	11	2.8	11	9.0	9.4	5.5
25	3.4	14	7.9	13	11	11	20	3.2	9.1	4.8	8.4	4.5
26	3.6	11	7.2	e8.6	26	22	14	2.8	5.3	3.8	7.6	11
27	3.7	9.0	e6.6	e7.5	17	85	11	2.9	32	9.0	7.2	12
28	3.7	8.5	e6.4	e7.2	12	31	9.7	2.9	16	5.3	7.3	11
29	3.4	8.0	17	e6.9	11	19	8.9	2.7	7.5	3.3	11	7.8
30	3.3	7.7	21	e6.6	---	16	8.3	2.3	5.3	9.3	7.5	6.0
31	3.4	---	12	e6.3	---	20	---	36	---	7.0	6.1	---
TOTAL	122.7	232.0	447.7	291.6	303.3	516.0	350.1	205.0	652.2	156.4	585.0	418.7
MEAN	3.96	7.73	14.4	9.41	10.5	16.6	11.7	6.61	21.7	5.05	18.9	14.0
MAX	9.3	61	51	33	54	85	20	36	191	11	154	99
MIN	2.3	2.6	6.4	4.5	3.6	7.0	7.5	2.3	3.9	1.9	1.9	4.3
CFSM	.54	1.05	1.96	1.27	1.42	2.26	1.58	.90	2.95	.68	2.56	1.89
IN.	.62	1.17	2.26	1.47	1.53	2.60	1.76	1.03	3.29	.79	2.95	2.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	MEAN	6.54	12.1	18.0	17.2	18.1	24.7	23.8	17.8	12.8	4.96	4.12	4.76
MAX	19.3	26.4	44.3	60.3	36.9	46.4	82.2	79.1	79.2	21.1	18.9	20.6	
(WY)	1976	1978	1984	1979	1970	1983	1983	1989	1972	1984	1992	1974	
MIN	.22	.84	2.28	1.96	5.10	9.56	6.34	3.69	1.63	.22	.076	.16	
(WY)	1965	1966	1966	1966	1980	1981	1985	1986	1988	1966	1966	1980	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1965 - 1992

ANNUAL TOTAL	4109.40	4280.7	
ANNUAL MEAN	11.3	11.7	13.7
HIGHEST ANNUAL MEAN			22.2
LOWEST ANNUAL MEAN			4.47
HIGHEST DAILY MEAN	111	Mar 4	191
LOWEST DAILY MEAN	.02	Jul 22	1.9
ANNUAL SEVEN-DAY MINIMUM	.09	Jul 17	2.7
INSTANTANEOUS PEAK FLOW			311
INSTANTANEOUS PEAK STAGE			3.88
INSTANTANEOUS LOW FLOW			1.6
ANNUAL RUNOFF (CFSM)	1.53	1.58	1.86
ANNUAL RUNOFF (INCHES)	20.71	21.58	25.22
10 PERCENT EXCEEDS	21	20	29
50 PERCENT EXCEEDS	8.0	7.9	7.8
90 PERCENT EXCEEDS	.69	3.1	.79

■ Also occurred on July 23 and Aug. 8, 9.

e Estimated.

SAUGATUCK RIVER BASIN

01208990 SAUGATUCK RIVER NEAR REDDING, CT

LOCATION.--Lat 41°17'40", long 73°23'44", Fairfield County, Hydrologic Unit 01100006, on right 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	17	37	e40	e29	30	71	28	44	11	16	16
2	20	16	34	29	e27	e29	64	27	28	8.5	13	13
3	18	18	80	29	e26	e28	57	31	21	7.0	10	21
4	18	15	124	34	e24	e27	51	28	15	11	9.9	73
5	18	13	91	37	e24	e27	46	27	45	12	10	75
6	29	13	70	34	e23	27	43	25	191	12	6.9	43
7	27	13	62	29	e22	34	40	26	118	11	7.0	31
8	26	13	57	26	e22	43	37	29	87	8.4	6.4	23
9	26	13	57	27	e21	38	34	35	73	11	28	19
10	22	15	74	30	e21	37	37	30	50	9.7	31	22
11	21	24	60	28	e20	109	36	26	39	6.8	73	27
12	19	32	54	25	e20	76	36	24	31	5.9	89	21
13	18	30	53	25	e19	59	32	22	25	5.2	51	18
14	22	25	57	46	18	48	29	20	21	5.1	38	18
15	24	21	51	44	23	42	26	17	18	23	28	15
16	37	19	44	35	64	38	26	22	21	131	26	12
17	36	25	39	e35	43	37	50	25	19	77	33	10
18	41	24	37	e31	36	36	60	21	14	39	209	9.8
19	34	20	e40	e29	35	38	69	17	12	25	130	8.9
20	27	18	e38	e26	33	38	54	16	13	18	82	9.1
21	25	19	e37	21	29	38	47	13	13	14	51	8.1
22	22	66	e36	20	26	36	45	11	11	12	39	8.1
23	20	158	e35	46	26	35	45	10	12	11	31	16
24	18	114	e34	106	25	33	44	9.2	16	13	25	15
25	17	81	e33	73	25	33	51	9.8	18	10	22	12
26	17	59	e32	52	59	60	44	9.3	13	8.6	20	17
27	18	48	e31	e50	51	200	38	9.4	23	13	18	20
28	17	44	27	36	43	151	34	9.0	20	13	19	20
29	15	47	37	34	37	105	31	8.3	18	9.2	26	17
30	15	40	48	e31	---	80	29	8.3	13	15	28	13
31	18	---	37	e30	---	85	---	24	---	14	22	---
TOTAL	707	1060	1546	1138	871	1697	1306	617.3	1042	570.4	1198.2	631.0
MEAN	22.8	35.3	49.9	36.7	30.0	54.7	43.5	19.9	34.7	18.4	38.7	21.0
MAX	41	158	124	106	64	200	71	35	191	131	209	75
MIN	15	13	27	20	18	27	26	8.3	11	5.1	6.4	8.1
CFSM	1.09	1.68	2.37	1.75	1.43	2.61	2.07	.95	1.65	.88	1.84	1.00
IN.	1.25	1.88	2.74	2.02	1.54	3.01	2.31	1.09	1.85	1.01	2.12	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	19.6	36.5	56.5	51.6	57.1	79.6	73.6	51.7	32.5	14.6	12.6	15.2																
MAX	83.1	93.6	167	187	128	176	220	167	166	79.1	47.6	92.1																
(WY)	1976	1973	1984	1979	1970	1983	1983	1989	1972	1984	1976	1975																
MIN	.92	2.28	8.05	4.69	16.2	34.7	18.9	11.4	6.04	.88	.22	.42																
(WY)	1965	1965	1966	1981	1980	1982	1985	1986	1965	1966	1966	1983																

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1965 - 1992

ANNUAL TOTAL	13082.40	12383.9	
ANNUAL MEAN	35.8	33.8	41.7
HIGHEST ANNUAL MEAN			74.8
LOWEST ANNUAL MEAN			16.2
HIGHEST DAILY MEAN	200 Sep 26	209 Aug 18	1300 Mar 22 1980
LOWEST DAILY MEAN	.39 Jul 22	5.1 Jul 14	.05 Sep 2 1966
ANNUAL SEVEN-DAY MINIMUM	.56 Jul 16	7.4 Jul 8	.11 Aug 28 1966
INSTANTANEOUS PEAK FLOW		382 Aug 18	2160 Mar 25 1969
INSTANTANEOUS PEAK STAGE		3.67 Aug 18	5.88 Mar 25 1969
INSTANTANEOUS LOW FLOW		4.6 Aug 9	.05 Sep 2 1966
ANNUAL RUNOFF (CFSM)	1.71	1.61	1.98
ANNUAL RUNOFF (INCHES)	23.17	21.94	26.96
10 PERCENT EXCEEDS	72	61	94
50 PERCENT EXCEEDS	31	27	25
90 PERCENT EXCEEDS	3.4	11	2.6

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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
24...	1410	18	206	7.8	19.5	11.5	0.80	11.1	101	K2	K11
NOV											
12...	1355	32	196	7.9	9.5	1.0	1.4	14.4	100	160	40
DEC											
16...	1330	43	179	7.7	-3.0	1.5	1.1	13.9	99	<1	K2
JAN											
13...	1405	25	200	7.6	13.5	1.5	1.4	13.6	99	K1	K1
MAR											
06...	1616	27	192	7.8	8.5	5.0	1.0	12.3	95	K1	<1
APR											
21...	1250	47	185	8.0	21.0	10.5	0.90	11.5	103	K9	K2
MAY											
07...	1320	27	196	8.1	16.0	12.0	0.90	10.5	96	K12	K3
JUN											
15...	1320	17	202	7.9	26.0	20.0	0.90	8.1	89	37	K16
JUL											
21...	1315	14	203	7.9	24.5	21.5	1.5	6.7	76	60	43
AUG											
14...	1245	40	193	7.9	23.5	17.0	2.1	9.2	95	92	45
SEP											
09...	1315	18	205	7.9	26.5	20.5	1.1	8.0	89	31	20

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
24...	75	20	6.1	11	1.7	0	77	63	11	25
NOV										
12...	72	19	6.0	10	2.1	0	77	63	10	19
DEC										
16...	63	17	5.0	9.3	1.3	0	61	50	12	16
JAN										
13...	71	19	5.7	10	1.4	0	74	61	13	21
MAR										
06...	70	19	5.4	9.7	1.3	0	65	53	12	19
APR										
21...	63	17	5.0	10	1.2	0	62	51	13	22
MAY										
07...	75	20	6.0	11	1.2	0	76	62	10	18
JUN										
15...	74	20	5.8	10	1.2	0	76	62	10	24
JUL										
21...	80	22	6.2	11	1.1	0	86	70	6.2	19
AUG										
14...	70	19	5.4	11	1.2	0	73	60	6.7	20
SEP										
09...	76	21	5.8	11	1.5	0	85	70	6.9	19

SAUGATUCK RIVER BASIN

01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 24...	<0.10	9.7	125	124	--	0.010	<0.050	0.020	--	<0.20
NOV 12...	0.20	8.3	112	137	--	<0.010	0.084	<0.010	--	0.30
DEC 16...	<0.10	9.7	115	117	--	<0.010	0.160	0.020	--	<0.20
JAN 13...	0.10	8.8	115	122	--	<0.010	0.190	0.020	--	<0.20
MAR 06...	0.20	6.7	107	107	--	<0.010	0.130	0.020	--	<0.20
APR 21...	<0.10	4.9	106	106	--	<0.010	0.074	<0.010	--	<0.20
MAY 07...	<0.10	5.6	114	117	0.150	0.010	0.160	0.020	0.28	0.30
JUN 15...	<0.10	7.8	110	127	--	<0.010	0.190	0.030	0.47	0.50
JUL 21...	<0.10	7.9	125	126	--	<0.010	0.110	0.030	0.37	0.40
AUG 14...	<0.10	8.3	120	137	--	<0.010	0.081	0.040	0.26	0.30
SEP 09...	<0.10	10	119	145	--	<0.010	0.120	0.010	0.19	0.20

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 24...	--	<0.010	<0.010	<0.010	--	<1.0	--	<1	--	2
NOV 12...	0.38	<0.010	<0.010	<0.010	<1	<1.0	2	<1	--	1
DEC 16...	--	0.010	0.010	<0.010	--	<1.0	--	<1	--	<1
JAN 13...	--	0.020	0.010	<0.010	<1	<1.0	<1	<1	2	<1
MAR 06...	--	<0.010	0.020	<0.010	<1	<1.0	<1	<1	<1	<1
APR 21...	--	<0.010	<0.010	0.020	--	<1.0	--	<1	--	<1
MAY 07...	0.46	0.030	<0.010	0.020	<1	<1.0	<1	<1	<1	<1
JUN 15...	0.69	0.030	<0.010	0.030	--	<1.0	--	1	--	1
JUL 21...	0.51	0.030	<0.010	0.020	<1	<1.0	<1	<1	3	<1
AUG 14...	0.38	0.020	<0.010	0.010	--	<1.0	--	<1	--	<1
SEP 09...	0.32	0.030	0.010	0.010	<1	<1.0	<1	<1	1	<1

SAUGATUCK RIVER BASIN

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01208990 SAUGATUCK RIVER NEAR REDDING, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS 2N) (01092)	ZINC, DIS- SOLVED (UG/L AS 2N) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 24...	--	94	--	<1	10	--	<1	--	<3	5.4
NOV 12...	210	98	6	<1	12	3	<1	20	9	5.4
DEC 16...	--	92	--	<1	20	--	<1	--	6	3.8
JAN 13...	190	73	1	<1	17	3	<1	10	18	3.1
MAR 06...	120	59	2	<1	12	1	<1	10	9	2.4
APR 21...	--	66	--	<1	14	--	<1	--	3	3.1
MAY 07...	280	140	<1	<1	21	<1	<1	<10	4	3.4
JUN 15...	--	270	--	<1	28	--	<1	--	11	4.6
JUL 21...	370	210	5	<1	22	<1	<1	<10	3	3.3
AUG 14...	--	170	--	<1	19	--	<1	--	11	7.2
SEP 09...	300	170	<1	<1	16	<1	<1	<10	4	5.3

NORWALK RIVER BASIN

01209700 NORWALK RIVER AT SOUTH WILTON, CT

LOCATION.--Lat 41°09'49", long 73°25'11", Fairfield County, Hydrologic Unit 01100006, on right bank at upstream side of bridge on Kent Road at South Wilton, 2.5 mi 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 water temperature and specific conductance were made during the water year and are listed in the miscellaneous specific conductance and temperature determinations tables. 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1955 reached a stage of 13.5 ft from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	11	35	36	e28	37	86	33	109	20	32	16
2	20	12	35	32	27	36	79	33	57	16	19	17
3	18	12	100	31	26	34	69	36	43	15	15	123
4	16	11	152	36	25	34	62	33	29	29	50	113
5	16	11	94	40	e24	33	57	31	81	24	22	50
6	29	11	80	38	23	32	52	28	384	24	16	39
7	28	11	69	34	22	45	48	26	168	20	13	31
8	23	11	61	30	e21	57	47	29	215	16	11	28
9	19	10	59	30	e20	49	44	50	205	21	100	24
10	17	10	82	35	19	48	45	39	130	16	55	52
11	15	20	65	31	e18	153	47	34	94	14	53	49
12	16	26	58	27	e17	94	45	29	71	12	82	31
13	15	22	62	26	17	73	41	27	58	11	52	26
14	14	20	67	54	18	62	37	24	48	11	50	21
15	19	17	58	59	28	52	35	22	38	20	37	18
16	33	14	50	45	95	46	37	29	28	86	37	17
17	31	14	44	36	55	44	61	31	24	54	50	15
18	35	13	e40	31	47	43	69	27	24	46	388	14
19	26	12	36	24	43	49	86	24	23	32	150	13
20	22	11	33	23	40	47	72	20	26	19	97	13
21	17	13	e32	23	36	46	71	18	25	14	75	12
22	15	69	e31	22	33	44	71	17	21	11	57	14
23	13	180	e30	45	32	45	65	16	19	24	42	27
24	13	109	e29	117	32	41	55	14	33	21	34	18
25	13	84	e29	63	35	42	74	15	31	15	29	16
26	13	65	e28	e54	76	68	64	15	23	16	26	31
27	13	49	e27	44	65	293	56	15	77	22	24	32
28	13	41	27	36	54	175	46	15	40	17	26	32
29	14	38	42	34	47	128	37	14	29	15	22	24
30	11	35	57	e32	---	102	35	13	22	23	19	18
31	14	---	44	e30	---	112	---	80	---	28	17	---
TOTAL	586	962	1656	1198	1023	2164	1693	837	2175	712	1700	934
MEAN	18.9	32.1	53.4	38.6	35.3	69.8	56.4	27.0	72.5	23.0	54.8	31.1
MAX	35	180	152	117	95	293	86	80	384	86	388	123
MIN	11	10	27	22	17	32	35	13	19	11	11	12
CFSM	.63	1.07	1.78	1.29	1.18	2.33	1.88	.90	2.42	.77	1.83	1.04
IN.	.73	1.19	2.05	1.49	1.27	2.68	2.10	1.04	2.70	.88	2.11	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	MEAN	28.2	49.5	71.2	70.4	74.1	105	103	75.5	47.0	21.3	18.6	21.5
MAX	128	131	189	250	165	227	327	384	266	105	63.4	129	
(WY)	1976	1973	1984	1979	1973	1983	1983	1989	1972	1984	1976	1971	
MIN	2.02	4.23	13.2	5.90	18.1	43.7	25.4	15.9	10.4	3.73	1.64	1.64	
(WY)	1965	1965	1981	1981	1980	1982	1985	1986	1965	1966	1965	1964	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1962 - 1992

ANNUAL TOTAL	17928.7	15640	
ANNUAL MEAN	49.1	42.7	57.1
HIGHEST ANNUAL MEAN			94.6
LOWEST ANNUAL MEAN			22.9
HIGHEST DAILY MEAN	383	Mar 4	388
LOWEST DAILY MEAN	3.6	Jul 21	10
ANNUAL SEVEN-DAY MINIMUM	3.9	Jul 16	11
INSTANTANEOUS PEAK FLOW			612
INSTANTANEOUS PEAK STAGE			3.27
INSTANTANEOUS LOW FLOW			8.6
ANNUAL RUNOFF (CFSM)	1.64	1.42	1.90
ANNUAL RUNOFF (INCHES)	22.23	19.39	25.87
10 PERCENT EXCEEDS	101	79	124
50 PERCENT EXCEEDS	34	32	32
90 PERCENT EXCEEDS	6.8	14	5.5

a Also occurred Nov. 1.

e Estimated.

NORWALK RIVER BASIN

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01209710 NORWALK RIVER AT WINNIPAU, CT

LOCATION.--Lat 41°08'07", long 73°25'36", Fairfield County, Hydrologic Unit 01100007, on Perry Ave., 0.6 mi 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)
OCT											
25...	1015	18	315	8.4	19.5	13.0	0.60	11.3	106	70	K10
NOV											
12...	1200	35	302	8.2	10.0	4.0	1.4	13.8	104	220	124
DEC											
16...	1115	55	261	8.1	-3.0	2.5	0.90	14.2	104	K8	K8
JAN											
13...	1220	29	285	8.6	16.0	3.5	1.0	15.0	113	<1	K1
MAR											
06...	1220	35	278	7.5	8.0	6.5	1.1	14.2	114	40	K3
APR											
21...	1020	73	256	8.5	12.0	9.5	0.90	12.8	111	47	K6
MAY											
07...	1105	30	285	8.8	15.0	11.0	1.0	14.8	133	52	K5
JUN											
15...	1120	46	235	8.2	26.0	19.0	0.90	9.9	107	200	31
JUL											
07...	1245	22	282	8.4	25.5	19.0	0.80	9.3	101	140	K5
AUG											
14...	1045	59	233	8.2	25.0	17.0	3.5	9.9	101	460	104
SEP											
09...	1120	26	268	8.6	30.0	21.0	1.6	14.0	156	210	K13

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
25...	100	27	8.6	22	3.4	0	97	80	20	48
NOV										
12...	95	30	4.9	19	3.9	0	100	82	20	38
DEC										
16...	80	21	6.7	17	2.3	0	69	57	21	33
JAN										
13...	88	23	7.4	19	2.3	0	81	66	20	39
MAR										
06...	81	21	7.0	21	2.3	0	59	48	21	41
APR										
21...	78	20	6.8	17	2.3	0	68	56	18	37
MAY										
07...	94	25	7.7	20	2.5	0	81	66	20	39
JUN										
15...	71	19	5.8	17	2.5	0	62	51	17	31
JUL										
07...	90	24	7.4	20	2.9	2	77	66	19	38
AUG										
14...	83	22	6.9	17	2.9	0	77	63	15	32
SEP										
09...	82	22	6.5	19	3.0	1	72	61	18	35

NORWALK RIVER BASIN

01209710 NORWALK RIVER AT WINNIPAUK, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 25...	0.10	7.0	175	182	--	<0.010	0.150	0.040	0.36	0.40
NOV 12...	<0.10	6.2	174	177	--	<0.010	0.160	<0.010	--	0.20
DEC 16...	0.10	10	139	166	--	<0.010	0.470	0.010	--	<0.20
JAN 13...	0.10	7.0	165	164	--	<0.010	0.470	0.010	--	<0.20
MAR 06...	<0.10	3.6	146	156	--	<0.010	0.290	0.020	0.28	0.30
APR 21...	0.10	4.0	161	162	0.260	0.010	0.270	0.010	--	<0.20
MAY 07...	<0.10	2.9	165	161	0.077	0.010	0.087	0.030	0.27	0.30
JUN 15...	<0.10	9.3	136	150	0.530	0.010	0.540	0.050	0.35	0.40
JUL 07...	<0.10	7.0	166	168	--	<0.010	0.520	0.020	--	<0.20
AUG 14...	<0.10	7.8	147	170	--	<0.010	0.420	0.040	0.26	0.30
SEP 09...	<0.10	8.8	154	175	--	<0.010	0.490	0.010	0.19	0.20

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
OCT 25...	0.55	0.060	0.040	0.030	--	<1.0	--	<1	--	3
NOV 12...	0.36	0.030	0.010	0.020	<1	<1.0	<1	<1	--	2
DEC 16...	--	0.040	0.030	0.030	--	<1.0	--	<1	--	1
JAN 13...	--	0.020	0.020	<0.010	<1	<1.0	<1	<1	2	1
MAR 06...	0.59	0.020	<0.010	<0.010	--	<1.0	--	<1	--	1
APR 21...	--	0.010	<0.010	<0.010	--	<1.0	--	<1	--	1
MAY 07...	0.39	0.010	<0.010	0.020	<1	<1.0	3	<1	2	1
JUN 15...	0.94	0.040	0.030	0.050	--	<1.0	--	<1	--	2
JUL 07...	--	0.050	0.060	0.030	<1	<1.0	<1	<1	3	2
AUG 14...	0.72	0.100	0.070	0.070	--	<1.0	--	<1	--	2
SEP 09...	0.69	0.050	0.030	0.040	--	<1.0	--	<1	--	2

NORWALK RIVER BASIN

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01209710 NORWALK RIVER AT WINNIPAUKE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
OCT 25...	--	88	--	<1	16	--	<1	--	6	5.0
NOV 12...	210	130	1	<1	--	3	<1	30	14	5.0
DEC 16...	--	110	--	<1	17	--	1	--	13	3.6
JAN 13...	170	45	1	<1	19	1	<1	20	20	3.0
MAR 06...	--	61	--	<1	28	--	<1	--	12	3.0
APR 21...	--	77	--	<1	20	--	1	--	13	3.8
MAY 07...	270	69	<1	<1	24	<1	<1	10	7	3.7
JUN 15...	--	140	--	<1	22	--	<1	--	4	4.4
JUL 07...	270	75	2	<1	20	<1	<1	10	5	3.5
AUG 14...	--	150	--	<1	27	--	<1	--	8	7.3
SEP 09...	--	110	--	<1	21	--	<1	--	10	4.2

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1992

Station number and stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Thames River Basin						
01119375 Willimantic River	Shetucket River	Lat 41°50'07", long 72°18'38", Tolland County, 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.	94.0	1974-91 (a)	06-30-92 08-12-92	114 95.5
01119382 Willimantic River	Shetucket River	Lat 41°49'27", long 72°18'49", Tolland County, at bridge on Merrow Road, 0.5 mi upstream from Winding Brook, and 1.0 mi downstream from State Route 195.	96.5	1991	06-30-92 08-29-92	123 43.0
01119384 Willimantic River	Shetucket River	Lat 41°49'07", long 72°19'44", Tolland County, at University of Connecticut Well Field, 0.3 mi downstream from Winding Brook, 1.4 mi upstream from Route 44.	98.0	1991	01-10-92 03-12-92 04-08-92 06-30-92 08-10-92 08-29-92	132 599 160 114 97.2 41.6
01119386 Willimantic River	Shetucket River	Lat 41°48'00", long 72°18'46", Tolland County, 300 ft upstream from bridge on U.S. Route 44.	100	1991	06-30-92 08-28-92	118 43.9
01122000 Natchaug River	Shetucket River	Lat 41°43'11", long 72°11'46", Windham County, 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.	174	1931-89 (b) 1990-91	10-04-91 12-27-91 07-28-92 07-28-92 09-29-92	201 297 70.9 73.8 39.4
01124151 Quinebaug River	Shetucket River	Lat 41°56'29", long 71°53'58", Windham County, on left bank 350 ft downstream from concrete V-notch weir below flood- control dam at West Thompson.	172	1966-89 (b) 1990-91	02-19-92 07-01-92 07-01-92 08-27-92	358 1260 1200 218
01125100 French River	Quinebaug River	Lat 41°58'41", long 71°54'03", Windham County, at Red Bridge Road 0.5 mi south of North Grosvenordale	101		12-27-91 01-31-92 02-19-92 04-07-92 06-02-92 08-11-92	127 152 212 243 206 55.8
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) 1974-91	07-01-92	1180
01126111 Fivemile River	Quinebaug River	Lat 41°48'07", long 71°53'15", Windham County, at bridge on U.S. Highway 6, at Danielson.	76.6	1991	07-08-92 08-07-92	95.5 27.7
01126113 Quinebaug River	Shetucket River	Lat 41°47'54", long 71°53'13", Windham County, 1500 ft below Fivemile River, at Powerplant of Quinebaug Partnership.	461	1991	06-30-92 06-30-92 08-07-92 08-07-92	476 469 174 190
01126642 Mill Brook	Quinebaug River	Lat 41°39'50", long 71°55'15", Windham County, upstream side of Bridge on Route 12, 0.1 mi downstream of Lathrop Brook.	9.11		07-28-92 08-12-92 08-27-92 09-04-92 09-14-92	1.14 7.48 4.57 18.8 6.19

a Water-quality samples collected.

b Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1992.--Continued

Station number and stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Connecticut River Basin						
01184325 Scantic River	Connecticut River	Lat 41°59'43", long 72°27'42", Tolland County, at Four Bridges Road	47		05-11-92 05-31-92 06-01-92	74.8 35.9 78.6
01184455 Middy Brook	Broad Brook	Lat 41°55'28", long 72°29'02", Tolland County, 0.5 mi upstream of Broad Brook.	0.79		05-07-92 06-18-92	0.97 0.116
01184470 Broad Brook	Scantic River	Lat 41°55'50", long 72°31'17", Hartford County, 0.3 mi South of State Route 140, on East Road.	11.6		05-07-92 06-18-92	22.3 14.1
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) 1987-91	11-07-92 07-24-92	145 126
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) 1987-91	06-25-92 09-23-92	65.6 36.1
Quinnipiac River Basin						
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	1989-91	10-08-91 01-02-92 02-06-92 04-07-92 06-25-92 08-12-92	2.78 3.34 3.06 4.21 11.3 2.45
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	1989-91	10-08-91 01-02-92 02-06-92 04-07-92 06-26-92 08-12-92	3.40 3.89 3.43 4.96 6.05 2.92
01196222 Quinnipiac	Long Island	Lat 41°31'45", long 72°51'50", New Haven County, at bridge on Cheshire Street, 3 mi west of Meriden.	69.6	1974-91 (a)	04-16-92 05-27-92 07-20-92 08-25-92	95.3 64.7 76.0 68.3
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	1978-91	02-06-92 06-30-92 08-12-92	5.01 4.63 4.17
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) 1978-91	02-06-92 06-30-92 08-12-92	15.1 16.9 11.3

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 1992.—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						
01198125 Housatonic River	Long Island Sound	Lat 42°04'29", long 73°20'02" Litchfield County, 3.4 mi above State Line, on Route 7 bridge.	465	1991 (a)	03-30-92 05-06-92 07-16-92	1260 2070 499
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) 1985-91 (d)	06-24-92 08-31-92	74.8 56.5
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) 1985-91 (d)	06-25-92 08-31-92	247 99.3
01208013 Branch Brook	Naugatuck River	Lat 41°39'13", long 73°05'43", Litchfield County, on right bank 140 ft upstream from U.S. Highway 6, and 1.7 mi southwest of Thomaston.	20.8	1975-89 (b) 1990-91	10-04-91 12-03-91 02-21-92 04-21-92 06-02-92 08-13-92	14.4 61.2 30.5 52.4 39.8 6.43
01208049 Naugatuck River	Housatonic River	Lat 41°36'55", long 73°03'30", New Haven County, at bridge on Forst Bridge Road, 4.5 mi north of Waterbury.	136	1980-91 (a)	04-23-92 05-28-92 06-23-92 07-13-92 09-14-92	386 78.3 106 116 79.5
01208171 Naugatuck River	Housatonic River	Lat 41°33'26", long 73°03'17", New Haven County, at West Main Street, at Waterbury.	174	1983-91	10-09-91 12-23-91 01-31-92 04-21-92 07-20-92 08-12-92	217 278 236 578 140 513
01208420 Hop Brook	Naugatuck River	Lat 41°30'21", long 73°03'31", New Haven County, on left bank 30 feet downstream from Porter Avenue bridge at the borough of Naugatuck golf course, 400 ft east of State highway 63, 0.8 mi downstream from Hop Brook Lake, 1.4 mi north of Naugatuck, and 0.6 mi upstream of mouth.	16.3	1970-89 (b) 1990-91	10-02-91 01-28-92 03-12-92 05-05-92 07-14-92 09-14-92	11.3 20.7 61.0 23.7 5.74 6.14
01208736 Naugatuck River	Housatonic River	Lat 41°19'50", long 73°04'47", New Haven County, at bridge on Division Street, at Ansonia- Derby townline.	309	1974-91 (a)	04-16-92 05-27-92 07-20-92 08-25-92 09-22-92	488 252 336 303 161

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.

MISCELLANEOUS SPECIFIC CONDUCTANCE AND TEMPERATURE DETERMINATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1991 SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
PANCATUCK RIVER BASIN									
01118300		PENDLETON HILL BROOK NEAR CLARKS FALLS, CT. (LAT 41 28 29N LONG 071 50 05W)							
91-11-13	1203	53	10.0	6.5	92-07-24	1250	85	20.0	18.5
91-12-11	1041	52	11.0	5.0	92-08-06	1330	57	24.0	20.0
92-01-24	1224	--	5.5	0.5					
THAMES RIVER BASIN									
01119382		WILLIMANTIC RIVER NEAR MERROW, CT (LAT 41 49 27N LONG 072 18 49W)							
92-06-30	0934	75	22.0	18.5					
01119384		WILLIMANTIC RIVER NEAR MANSFIELD DEPOT, CT (LAT 41 49 07N LONG 072 19 44W)							
92-04-08	0845	87	11.0	7.0	92-06-30	1018	74	27.5	18.5
01119386		WILLIMANTIC RIVER AT MANSFIELD DEPOT, CT (LAT 41 48 00N LONG 072 18 46W)							
92-06-30	1220	70	26.0	11.5					
01119500		WILLIMANTIC RIVER NEAR COVENTRY, CT (LAT 41 45 02N LONG 072 15 58W)							
91-11-14	1031	89	11.5	6.0	92-04-08	1141	--	17.5	11.0
01121000		MOUNT HOPE RIVER NEAR WARRENVILLE, CT. (LAT 41 50 37N LONG 072 10 10W)							
91-11-14	0841	83	8.0	5.0	92-09-29	0947	95	20.5	14.5
92-07-28	1319	106	21.0	21.0					
01122000		NATCHAUG RIVER AT WILLIMANTIC, CT (LAT 41 43 11N LONG 072 11 46W)							
91-10-04	1009	45	25.0	16.0	92-09-29	1237	103	15.0	17.0
92-07-28	1003	93	20.5	21.0					
01122500		SHETUCKET RIVER NEAR WILLIMANTIC, CT. (LAT 41 42 01N LONG 072 10 57W)							
92-07-27	1302	110	24.0	23.0	92-09-29	1442	125	13.5	16.5
01123000		LITTLE RIVER NEAR HANOVER, CT. (LAT 41 40 18N LONG 072 03 10W)							
91-11-08	1120	86	9.0	5.0	92-04-08	1444	72	15.0	12.0
91-12-30	1240	74	4.5	2.5	92-06-01	1210	65	15.0	14.5
011230695		SHETUCKET RIVER AT TAFTVILLE, CT. (LAT 41 34 06N LONG 072 02 44W)							
91-11-08	1309	114	9.0	8.0					
01124000		QUINEBAUG RIVER AT QUINEBAUG, CT. (LAT 42 01 20N LONG 071 57 22W)							
91-11-19	0853	108	10.5	4.5	92-04-07	1000	112	11.0	8.0
91-12-27	0930	133	1.5	1.0	92-06-26	1039	125	21.0	19.0
92-02-19	0951	--	5.0	3.0					
01124151		QUINEBAUG RIVER AT WEST THOMPSON, CT (LAT 41 56 36N LONG 071 54 03W)							
92-02-19	1252	--	7.0	3.0	92-07-01	1110	121	29.0	24.0
01125100		FRENCH RIVER AT NORTH GROSVENORDALE, CT (LAT 41 58 41N LONG 071 54 03W)							
91-12-27	1100	146	6.5	1.5	92-06-02	1057	295	19.5	16.5
92-04-07	1245	145	16.0	8.5					
01126113		QUINEBAUG RIVER AT DANIELSON, CT (LAT 41 47 54N LONG 071 53 13W)							
92-06-30	1215	149	22.0	21.0	92-06-30	1305	149	22.0	21.0
01127000		QUINEBAUG RIVER AT JEWETT CITY, CT (LAT 41 35 52N LONG 071 59 05W)							
92-07-08	1030	121	25.0	21.0					
01127500		YANTIC RIVER AT YANTIC, CT (LAT 41 33 31N LONG 072 07 19W)							
91-11-13	0855	119	5.0	5.0	92-07-23	1254	197	15.0	20.0
92-02-19	1409	107	8.0	3.5	92-08-07	1000	140	23.0	21.0
92-04-15	1350	111	14.0	12.0					

MISCELLANEOUS SPECIFIC CONDUCTANCE AND TEMPERATURE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
CONNECTICUT RIVER BASIN									
01184100 STONY BROOK NEAR WEST SUFFIELD, CT. (LAT 41 57 38N LONG 072 42 39W)									
91-11-06	0930	316	3.0	3.5	92-08-18	1450	149	22.5	18.0
92-01-06	1550	204	4.0	2.5	92-09-23	1348	312	16.5	16.5
01184490 BROAD BROOK AT BROAD BROOK, CT. (LAT 41 54 50N LONG 072 33 00W)									
91-11-14	1424	330	11.5	7.0	92-07-22	1200	307	21.0	22.0
92-02-12	1152	336	-5.0	2.0	92-09-30	1027	351	11.0	13.0
01186000 WEST BRANCH FARMINGTON RIVER AT RIVERTON, CT. (LAT 41 57 46N LONG 073 01 05W)									
91-11-05	1404	80	3.5	12.0	92-07-28	1200	94	23.0	11.0
92-02-11	1224	82	0.5	3.0	92-09-21	1230	82	20.0	19.0
92-04-30	1000	78	18.5	8.0					
01186500 STILL RIVER AT ROBERTSVILLE, CT. (LAT 41 58 02N LONG 073 02 04W)									
92-01-08	1303	112	-1.0	0.5	92-07-27	1330	112	24.0	21.0
92-04-30	0830	109	10.0	8.5	92-09-21	1045	131	24.0	18.0
01187300 HUBBARD RIVER NR. WEST HARTLAND, CT. (LAT 42 02 14N LONG 072 56 22W)									
91-11-05	0933	41	3.0	4.5	92-07-27	1100	40	21.0	18.0
92-01-08	1111	37	-0.5	0.0	92-09-21	0845	47	15.0	12.5
92-04-30	1315	31	15.0	9.0					
01188000 BURLINGTON BROOK NEAR BURLINGTON, CT (LAT 41 47 10N LONG 072 57 55W)									
92-01-06	1320	91	3.5	3.0	92-07-17	1210	85	20.0	18.0
92-04-29	1145	91	15.0	11.0	92-09-16	1200	118	21.0	16.0
92-06-02	1015	--	13.0	12.5					
01188090 FARMINGTON RIVER AT UNIONVILLE, CT (LAT 41 45 21N LONG 072 53 14W)									
92-05-29	1155	96	22.0	14.0	92-08-24	1400	95	23.0	21.5
92-07-28	0845	94	18.0	18.0	92-09-16	1000	90	21.0	19.0
01189000 PEQUABUCK RIVER AT FORESTVILLE, CT. (LAT 41 40 23N LONG 072 54 04W)									
91-11-04	1116	263	8.5	12.0	92-05-29	0850	359	15.0	14.0
92-01-06	1025	192	7.0	6.0	92-07-17	0825	183	20.5	18.0
92-04-29	0800	197	10.0	10.0	92-09-16	0825	294	21.0	18.0
01189995 FARMINGTON RIVER AT TARIFFVILLE, CT (LAT 41 54 30N LONG 072 45 40W)									
92-09-21	1410	121	21.0	19.0					
01191000 NORTH BRANCH PARK RIVER AT HARTFORD, CT. (LAT 41 47 03N LONG 072 42 31W)									
92-09-23	0953	259	16.0	18.0					
01192500 HOCKANUM RIVER NEAR EAST HARTFORD, CT. (LAT 41 45 36N LONG 072 35 16W)									
91-11-08	0820	376	4.0	7.5	92-07-21	1245	293	25.5	24.5
91-12-27	1548	364	5.0	4.5	92-09-28	1236	391	19.0	19.0
92-07-21	1008	287	24.5	23.5					
01192883 COGINCHAUG RIVER AT MIDDLEFIELD, CT (LAT 41 31 12N LONG 072 43 23W)									
91-10-11	1006	184	17.0	13.0	92-08-19	1304	168	25.0	20.0
92-01-03	1437	188	8.0	1.5	92-09-21	1056	228	21.5	15.5
92-02-10	1416	213	-4.0	0.5					
01193500 SALMON RIVER NEAR EAST HAMPTON, CT (LAT 41 32 53N LONG 072 26 59W)									
91-11-14	1216	100	12.5	6.0	92-05-12	1215	--	23.0	13.5
91-12-12	1421	--	8.0	4.5	92-08-05	1200	106	21.0	20.5
92-03-27	1141	82	6.0	3.0					

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 SEPTEMBER 1992

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INDIAN RIVER BASIN									
01195100		INDIAN RIVER NEAR CLINTON, CT. (LAT 41 18 21N LONG 072 31 54W)							
91-11-12	1308	88	8.0	8.0	92-02-19	1222	75	9.0	2.0
91-12-30	1154	80	2.5	2.0	92-08-04	0918	84	22.0	23.0
HAMMONASSET RIVER BASIN									
01195146		POND MEADOW BROOK AT KILLINGWORTH, CT (LAT 41 22 57N LONG 072 35 22W)							
91-11-12	1142	68	10.0	5.0	92-02-19	1420	57	6.0	2.0
91-12-30	1404	60	0.5	1.0	92-08-04	1356	73	23.5	21.5
QUINNIPIAC RIVER BASIN									
01195490		QUINNIPIAC RIVER AT SOUTHTON, CT (LAT 41 36 06N LONG 072 53 03W)							
91-10-08	1044	300	13.5	12.0	92-02-05	1335	327	-1.0	2.5
91-12-30	1300	316	4.0	3.5	92-08-11	1247	318	26.5	21.0
01196210		HONEYPOT BROOK AT CREAMERY ROAD AT CHESHIRE, CT (LAT 41 31 56N LONG 072 53 25W)							
91-10-08	1420	276	16.0	13.5	92-02-06	1246	311	-0.5	4.5
92-01-02	1412	302	6.5	6.0	92-08-12	1230	293	24.5	18.5
01196215		HONEYPOT BROOK AT WELL FIELD AT CHESHIRE, CT (LAT 41 32 33N LONG 072 52 40W)							
91-10-08	1304	261	17.5	11.5	92-02-06	1108	303	0.0	0.5
92-01-02	1230	299	11.0	3.5	92-08-12	1102	266	24.0	18.0
01196222		QUINNIPIAC RIVER NEAR MERIDEN, CT (LAT 41 31 45N LONG 072 51 50W)							
92-04-16	1200	300	10.0	9.0	92-05-28	1220	321	15.5	13.0
01196500		QUINNIPIAC RIVER AT WALLINGFORD, CT (LAT 41 26 58N LONG 072 50 29W)							
92-02-10	1154	375	-3.5	2.0	92-08-21	1122	260	22.0	20.5
01196590		MILL RIVER NEAR CHESHIRE, CT (LAT 41 27 13N LONG 072 54 02W)							
92-02-06	1407	269	1.0	2.0	92-08-12	1350	206	23.0	22.5
MILL RIVER BASIN									
01196600		WILLOW BR NEAR CHESHIRE, CT (LAT 41 27 35N LONG 072 55 06W)							
92-02-06	1520	212	0.0	2.5	92-08-12	1520	193	21.5	20.5
01196620		MILL RIVER NEAR HAMDEN, CT. (LAT 41 25 15N LONG 072 54 12W)							
91-10-10	0917	198	19.0	12.0	92-02-19	1221	--	6.5	4.5
92-01-03	0955	201	--	3.0	92-08-17	1358	159	18.0	17.0
HOUSATONIC RIVER BASIN									
01199000		HOUSATONIC RIVER AT FALLS VILLAGE, CT (LAT 41 57 26N LONG 073 22 11W)							
92-07-07	1015	304	16.0	19.0	92-08-26	0740	296	22.5	21.5
01199050		SALMON CREEK AT LIME ROCK, CT (LAT 41 56 32N LONG 073 23 29W)							
91-10-08	1130	256	14.0	11.0	92-04-22	1215	180	17.0	10.5
91-12-05	1345	214	-2.0	1.0	92-06-26	1230	128	21.0	15.0
92-02-27	1330	161	2.0	3.0	92-08-11	1310	159	24.0	20.0
01200000		TENMILE RIVER NEAR GAYLORDSVILLE, CT (LAT 41 39 32N LONG 073 31 44W)							
91-10-07	1000	326	9.5	13.0	92-06-24	1000	300	15.0	17.0
91-12-24	1045	354	-3.0	1.5	92-08-11	0900	319	24.0	20.0
92-01-31	1240	289	6.5	1.5					
01200500		HOUSATONIC RIVER AT GAYLORDSVILLE, CT. (LAT 41 39 11N LONG 073 29 25W)							
92-06-29	0925	274	20.5	21.0	92-08-27	1245	275	34.0	25.5
01201510		STILL RIVER AT LANESVILLE, CT (LAT 41 32 12N LONG 073 25 04W)							
92-06-24	1215	426	21.0	17.0	92-08-31	1230	418	22.0	20.0

MISCELLANEOUS SPECIFIC CONDUCTANCE AND TEMPERATURE DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 SEPTEMBER 1992

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HOUSATONIC RIVER BASIN--Continued									
	01203000	SHEPAUG RIVER NEAR ROXBURY, CT (LAT 41 32 59N LONG 073 19 49W)							
92-06-25	1200	114	18.0	18.5	92-08-31	0940	134	22.0	19.5
	01204000	POMPERAUG RIVER AT SOUTHURY, CT. (LAT 41 28 50N LONG 073 13 30W)							
91-10-09	1315	123	14.0	12.0	92-04-17	1210	120	5.5	5.0
91-12-09	1040	119	14.0	6.0	92-06-25	0900	107	19.5	15.5
92-02-21	1000	138	7.0	2.5	92-08-10	0945	117	22.0	19.0
	01205500	HOUSATONIC RIVER AT STEVENSON, CT (LAT 41 23 02N LONG 073 10 05W)							
92-06-29	1245	211	21.0	20.5					
	01205600	WEST BRANCH NAUGATUCK RIVER AT TORRINGTON, CT. (LAT 41 48 03N LONG 073 07 26W)							
91-10-04	0900	150	18.5	16.0	92-04-20	0930	101	11.0	6.0
91-12-04	1000	110	3.0	4.5	92-07-13	0845	123	25.0	23.0
92-02-19	1315	149	10.5	3.5	92-08-19	1000	98	22.5	19.0
	01205700	EAST BRANCH NAUGATUCK RIVER AT TORRINGTON, CONN (LAT 41 48 12N LONG 073 07 06)							
91-10-01	1230	159	20.5	12.0	92-04-20	1055	128	12.0	7.0
91-12-04	1120	130	6.0	4.0	92-07-09	1145	115	25.5	21.5
92-02-19	1120	160	7.5	2.0	92-08-19	1230	105	22.0	18.5
	01206900	NAUGATUCK RIVER AT THOMASTON, CT. (LAT 41 40 25N LONG 073 04 12W)							
91-10-04	1245	200	21.0	18.0	92-04-21	1400	127	21.5	10.0
91-12-23	1520	269	3.0	2.0	92-06-23	0830	124	13.5	14.0
92-02-21	1300	170	5.0	2.5	92-08-13	1100	129	22.0	19.5
	01208013	BRANCH BROOK NEAR THOMASTON, CT (LAT 41 39 13N LONG 073 05 43W)							
91-10-04	1030	100	21.0	17.0	92-04-21	0945	104	16.0	7.5
91-12-03	1410	115	1.5	6.0	92-06-02	1210	102	19.5	16.0
92-02-21	1520	121	6.0	3.5	92-08-13	1415	108	22.0	21.0
	01208049	NAUGATUCK RIVER NEAR WATERTOWN, CT (LAT 41 36 55N LONG 073 03 30W)							
92-04-23	0850	139	17.0	11.5	92-05-28	1220	225	20.0	16.0
	01208171	NAUGATUCK RIVER AT WATERTOWN, CT (LAT 41 33 26N LONG 073 03 17W)							
91-10-09	0925	162	13.0	12.0	92-04-21	0900	131	18.0	9.0
91-12-23	0915	270	4.0	1.5	92-07-20	1305	154	26.0	24.5
92-01-31	0940	181	5.5	1.5	92-08-12	0820	164	18.0	21.0
	01208420	HOP BROOK NEAR NAUGATUCK, CT (LAT 41 30 21N LONG 073 03 31W)							
91-10-02	0830	148	21.0	14.5	92-05-05	1035	164	15.0	14.5
92-01-28	0930	200	5.0	1.0	92-07-14	1130	170	27.0	24.0
92-03-12	1515	162	2.0	4.5	92-09-14	1125	178	21.5	19.0
	01208500	NAUGATUCK RIVER AT BEACON FALLS, CT (LAT 41 26 32N LONG 073 03 47W)							
91-11-01	1000	292	7.0	12.0	92-05-28	0900	374	18.0	15.0
92-01-28	1100	270	4.0	2.0	92-07-22	1030	340	23.0	24.0
92-04-23	1115	198	19.0	15.0	92-09-22	1030	427	23.5	21.5
	01208736	NAUGATUCK RIVER AT ANSONIA, CT (LAT 41 19 50N LONG 073 04 47W)							
92-04-16	0930	280	14.0	10.0	92-05-27	1235	329	21.0	18.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 SEPTEMBER 1992

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
ROOSTER RIVER BASIN									
01208873		ROOSTER RIVER AT FAIRFIELD, CT (LAT 41 10 47N LONG 073 13 10W)							
91-11-04	1515	278	7.0	11.0	92-05-14	1300	176	26.0	18.5
92-01-30	1400	287	5.0	5.0	92-07-30	1130	196	21.0	20.0
92-03-25	1345	282	4.5	8.5	92-09-23	1130	212	16.0	17.0
MILL RIVER BASIN									
01208925		MILL RIVER NEAR FAIRFIELD, CT (LAT 41 09 55N LONG 073 15 14W)							
91-11-04	1300	183	10.0	11.0	92-05-14	0845	173	18.5	16.5
92-01-30	0945	170	3.5	2.5	92-07-29	0930	166	20.0	21.0
92-03-25	0945	190	3.0	4.0	92-09-23	0845	151	14.0	19.0
SASCO BROOK BASIN									
01208950		SASCO BROOK NEAR SOUTHPORT, CT. (LAT 41 09 10N LONG 073 18 23W)							
91-11-04	1130	178	10.0	10.0	92-05-14	1030	147	20.5	17.5
92-01-30	1100	176	3.5	1.0	92-07-29	1145	138	23.0	19.5
92-03-25	1110	168	7.0	4.0	92-09-23	1015	150	19.0	17.0
SAUGATUCK RIVER BASIN									
01208990		SAUGATUCK RIVER NEAR REDDING, CT (LAT 41 17 40N LONG 073 23 44W)							
91-11-05	1045	222	5.0	7.0	92-05-12	0900	194	17.0	14.0
92-01-29	0940	190	0.0	0.0	92-07-12	1010	199	22.5	22.5
92-03-26	0930	202	8.0	4.5	92-09-18	0900	206	21.0	18.0
NORWALK RIVER BASIN									
01209700		NORWALK RIVER AT SOUTH WILTON, CT. (LAT 41 09 49N LONG 073 25 11W)							
91-11-05	1230	354	5.0	8.0	92-05-12	1030	284	17.0	14.0
92-01-29	1130	291	4.0	1.5	92-07-21	1245	280	23.0	22.0
92-03-26	1115	298	12.5	6.0	92-09-18	1040	283	22.0	18.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

Samples are collected at sites other than gaging stations and partial record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

The following data was collected as part of the Connecticut, Thames, and Housatonic Rivers NAWQA study unit sampling scheme. Additionally, tissue and sediment data were collected at the following sites in Connecticut:

01184490 Broad Brook at Broad Brook, CT
 01189000 Pequabuck River at Forestville, CT
 01192500 Hockanum River near East Hartford, CT
 01200000 Tenmile River near Gaylordsville, CT
 01209710 Norwalk River at Winnepauk, CT

To obtain this data please contact the U.S. Geological Survey, 28 Lord Rd., Suite 280, Marlborough, MA., or phone (508) 485-6360.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METRYN, WATER, DISS, REC (UG/L) (04036)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
CONNECTICUT RIVER BASIN										
01184325 SCANTIC RIVER AT FOUR BRIDGES ROAD, SOMERS, CT (LAT 41 59 43N LONG 072 27 42W)										
MAY 1992										
07...	1300	--	--	--	--	--	--	<0.05	<0.05	<0.05
11...	1035	<0.010	--	0.500	0.020	--	<0.010	--	--	--
31...	2100	--	--	--	--	--	--	<0.05	<0.05	<0.05
31...	2230	--	--	--	--	--	--	<0.05	<0.05	<0.05
JUN										
01...	0730	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	1800	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	1930	--	--	--	--	--	--	<0.05	<0.05	<0.05
02...	0900	--	--	--	--	--	--	<0.05	<0.05	<0.05
06...	1000	--	0.510	--	--	1.0	--	<0.05	<0.05	<0.05
01184455 MUDDY BROOK AT ELLINGTON, CT (LAT 41 55 28N LONG 072 29 02W)										
MAY 1992										
07...	0930	--	--	--	--	--	--	<0.05	<0.05	<0.05
11...	0950	<0.010	--	0.740	0.010	--	<0.010	--	--	--
31...	1600	--	--	--	--	--	--	<0.05	<0.05	<0.05
31...	1800	--	--	--	--	--	--	<0.05	<0.05	<0.05
31...	2000	--	--	--	--	--	--	<0.05	<0.05	<0.05
31...	2300	--	--	--	--	--	--	<0.05	<0.05	<0.05
JUN										
01...	0100	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	0200	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	1100	--	--	--	--	--	--	<0.05	<0.05	<0.05
02...	0400	--	--	--	--	--	--	<0.05	<0.05	<0.05
06...	0800	--	0.340	--	--	0.50	--	<0.05	<0.05	<0.05
01184470 BROAD BROOK AT MELROSE, CT (LAT 41 55 53N LONG 072 31 17W)										
MAY 1992										
07...	1030	--	--	--	--	--	--	<0.05	<0.05	<0.05
11...	1245	0.030	--	3.60	0.010	--	0.020	--	--	--
31...	1730	--	--	--	--	--	--	<0.05	<0.05	<0.05
31...	2030	--	--	--	--	--	--	<0.05	<0.05	<0.05
JUN										
01...	0100	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	0530	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	1000	--	--	--	--	--	--	<0.05	<0.05	<0.05
01...	2200	--	--	--	--	--	--	<0.05	<0.05	<0.05
02...	0700	--	--	--	--	--	--	<0.05	<0.05	<0.05
02...	0830	--	--	--	--	--	--	<0.05	<0.05	<0.05
06...	0845	--	2.80	--	--	2.8	--	<0.05	<0.05	<0.05

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	DEISO- PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	AMETRYN WATER, DISS, REC (UG/L) (38401)	PROP- AZINE WATER DISS REC (UG/L) (38535)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)
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CONNECTICUT RIVER BASIN.--Continued

01184325 SCANTIC RIVER AT FOUR BRIDGES ROAD, SOMERS, CT (LAT 41 59 43N LONG 072 27 42W)

MAY 1992									
07...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
11...	--	--	--	--	--	--	--	--	--
31...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
31...	<0.05	0.13	<0.20	<0.05	<0.05	0.09	0.11	<0.05	<0.05
JUN									
01...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
01...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
01...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
02...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
06...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

01184455 MUDDY BROOK AT ELLINGTON, CT (LAT 41 55 28N LONG 072 29 02W)

MAY 1992									
07...	<0.10	0.11	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
11...	--	--	--	--	--	--	--	--	--
31...	<0.05	0.23	<0.20	<0.05	<0.05	<0.05	0.15	<0.05	<0.05
31...	<0.05	0.24	<0.20	<0.05	<0.05	<0.05	0.40	<0.05	<0.05
31...	<0.05	0.27	<0.20	<0.05	<0.05	<0.05	0.87	<0.05	<0.05
31...	<0.05	0.16	<0.20	<0.05	<0.05	<0.05	0.14	<0.05	<0.05
JUN									
01...	<0.05	0.15	<0.20	<0.05	<0.05	<0.05	0.35	<0.05	<0.05
01...	<0.05	0.14	<0.20	<0.05	<0.05	<0.05	0.65	<0.05	<0.05
01...	<0.05	0.06	<0.20	<0.05	<0.05	0.16	0.28	<0.05	<0.05
02...	<0.05	0.07	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
06...	<0.05	0.11	<0.20	<0.05	<0.05	<0.05	0.23	<0.05	<0.05

01184470 BROAD BROOK AT MELROSE, CT (LAT 41 55 53N LONG 072 31 17W)

MAY 1992									
07...	<0.10	0.12	<0.20	<0.05	<0.05	0.10	0.07	<0.05	<0.05
11...	--	--	--	--	--	--	--	--	--
31...	<0.05	0.14	<0.20	<0.05	<0.05	0.09	0.09	<0.05	<0.05
31...	<0.05	0.13	<0.20	<0.05	<0.05	0.11	0.12	<0.05	<0.05
JUN									
01...	<0.05	0.11	<0.20	<0.05	<0.05	0.12	0.21	<0.05	<0.05
01...	<0.05	0.11	<0.20	<0.05	<0.05	0.18	0.20	<0.05	<0.05
01...	<0.05	0.09	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
01...	<0.05	<0.05	<0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
02...	<0.05	0.06	<0.20	<0.05	<0.05	0.10	0.06	<0.05	<0.05
02...	<0.05	0.11	<0.20	<0.05	<0.05	0.10	0.06	<0.05	<0.05
06...	0.19	0.91	<0.20	<0.05	<0.05	0.25	4.6	<0.05	<0.05

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--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

REMARKS--Obstructed by ice December 27, 1983.

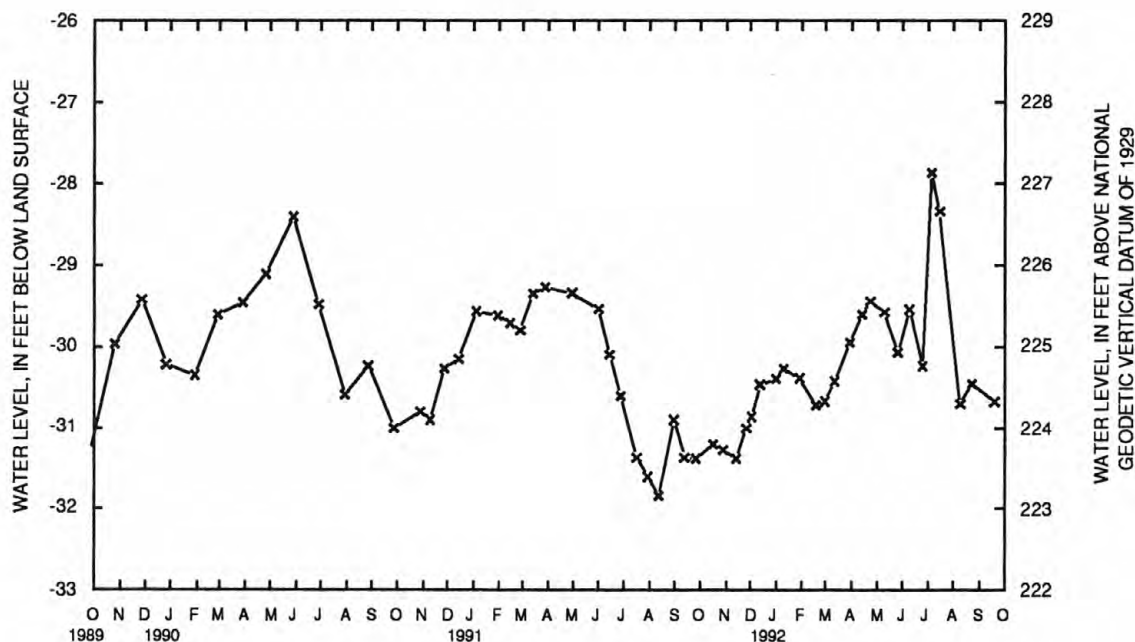
PERIOD OF RECORD--January 1967 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 17	31.20	DEC 12	30.47	FEB 28	30.67	MAY 10	29.57	JUL 15	28.34
29	31.27	31	30.40	MAR 11	30.43	26	30.07	AUG 09	30.71
NOV 14	31.38	JAN 09	30.27	30	29.95	JUN 09	29.54	23	30.46
26	31.00	29	30.39	APR 13	29.60	25	30.24	SEP 19	30.68
DEC 02	30.86	FEB 18	30.72	23	29.44	JUL 05	27.87	26	OBSTRUCTION
WATER YEAR 1992		HIGHEST	27.87	JUL 05, 1992	LOWEST	31.38	NOV 14, 1991		

BD 8



GROUND-WATER LEVELS

207

FAIRFIELD COUNTY--Continued

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

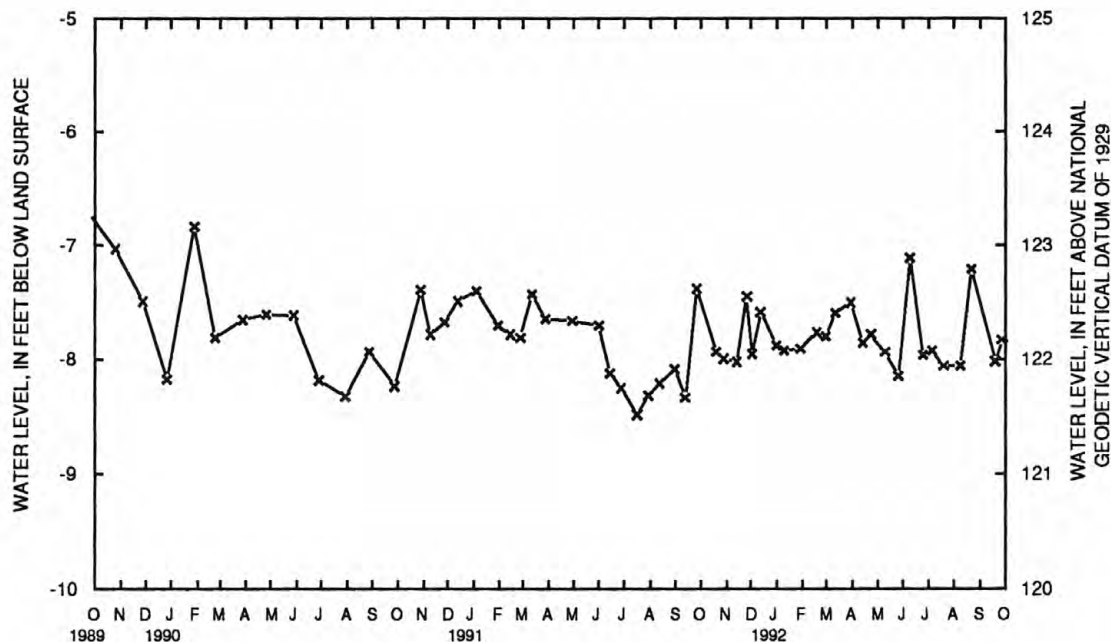
PERIOD OF RECORD.--October 1966 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 19	7.93	DEC 12	7.58	FEB 28	7.79	MAY 10	7.93	JUL 19	8.05
29	7.99	31	7.87	MAR 11	7.59	26	8.14	AUG 08	8.05
NOV 14	8.02	JAN 09	7.92	30	7.50	JUN 09	7.11	22	7.21
26	7.45	29	7.90	APR 13	7.85	25	7.96	SEP 19	8.01
DEC 02	7.95	FEB 18	7.76	23	7.78	JUL 05	7.92	27	7.82
WATER YEAR 1992		HIGHEST	7.11 JUN 09, 1992	LOWEST	8.14 MAY 26, 1992				

FF 23



GROUND-WATER LEVELS

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

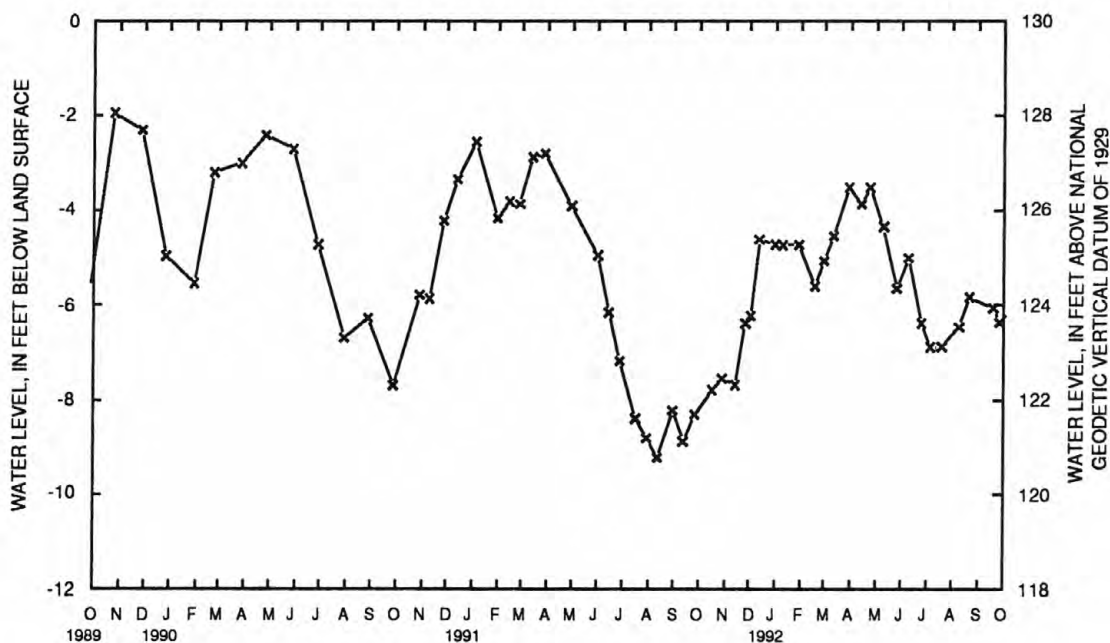
PERIOD OF RECORD.--January 1967 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 17	7.78	DEC 12	4.60	FEB 28	5.06	MAY 10	4.34	JUL 19	6.86
29	7.53	31	4.71	MAR 11	4.54	26	5.65	AUG 09	6.45
NOV 14	7.66	JAN 09	4.73	30	3.51	JUN 09	5.00	22	5.82
26	6.38	29	4.72	APR 13	3.86	25	6.37	SEP 19	6.06
DEC 02	6.22	FEB 18	5.59	24	3.51	JUL 05	6.88	26	6.35
WATER YEAR 1992		HIGHEST	3.51	MAR 30, 1992	APR 24, 1992	LOWEST	7.78	OCT 17, 1991	

NT 15



GROUND-WATER LEVELS

209

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 from February 29, 1988 to November 1990, measured monthly, since November 1990 measurements made biweekly 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.

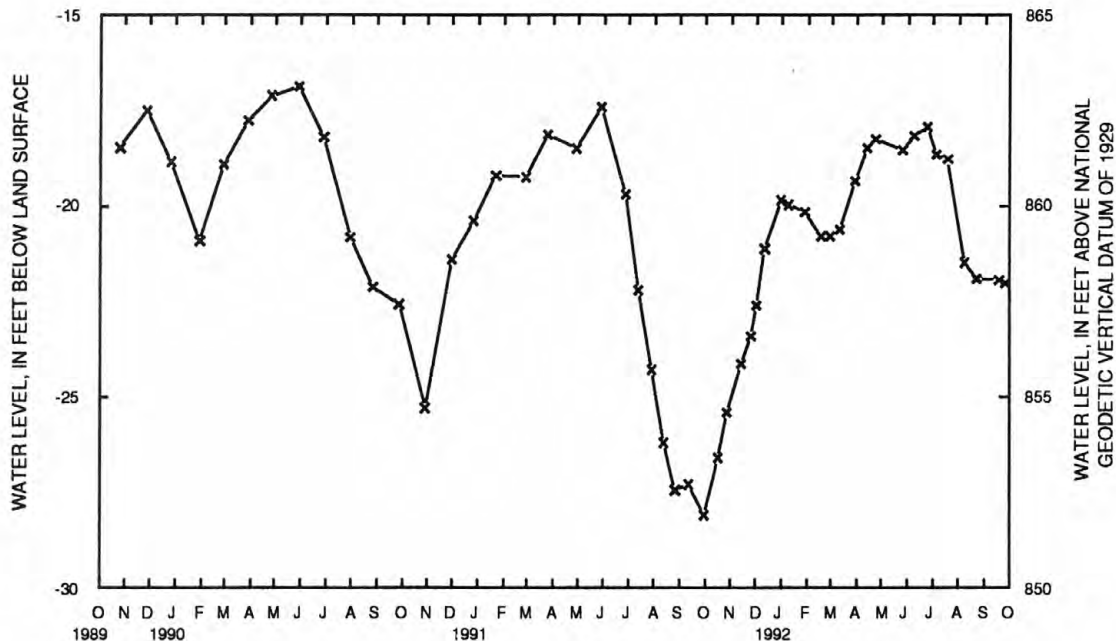
PERIOD OF RECORD.--April 1946 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 17	26.59	DEC 02	22.60	JAN 29	20.16	MAR 30	19.34	JUN 09	18.15	AUG 09	21.49
28	25.40	12	21.12	FEB 18	20.78	APR 13	18.48	25	17.93	23	21.92
NOV 14	24.14	31	19.85	28	20.79	24	18.24	JUL 05	18.66	SEP 19	21.94
26	23.40	JAN 09	19.96	MAR 11	20.61	MAY 26	18.53	19	18.77	26	22.02
WATER YEAR 1992		HIGHEST	17.93	JUN 25, 1992	LOWEST	26.59	OCT 17, 1991				

BU 2



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 Presse

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

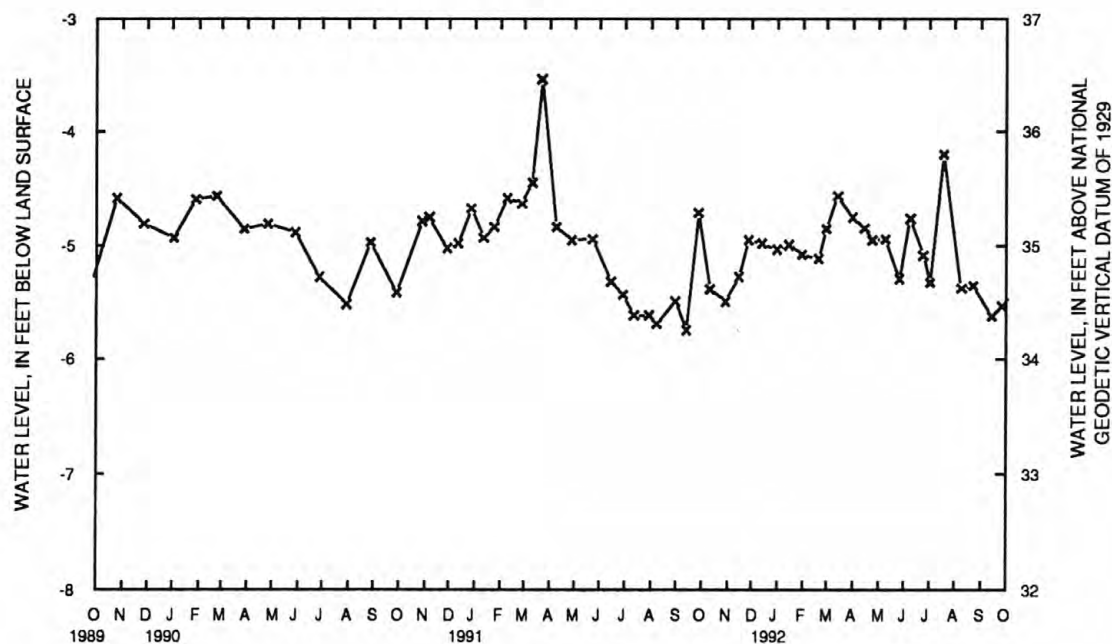
PERIOD OF RECORD.--January 1986 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	5.38	DEC 13	4.98	FEB 19	5.11	APR 14	4.84	JUN 08	4.76	AUG 09	5.37
30	5.49	31	5.03	28	4.85	24	4.95	24	5.08	23	5.35
NOV 15	5.27	JAN 14	4.99	MAR 13	4.56	MAY 09	4.94	JUL 03	5.32	SEP 14	5.62
27	4.95	30	5.07	31	4.75	27	5.29	18	4.20	26	5.53
WATER YEAR 1992		HIGHEST	4.20	JUL 18, 1992		LOWEST	5.62	SEP 14, 1992			

EW 133



GROUND-WATER LEVELS

211

HARTFORD COUNTY--Continued

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, PVC casing, screened 99.1 to 102.1 ft.

INSTRUMENTATION--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

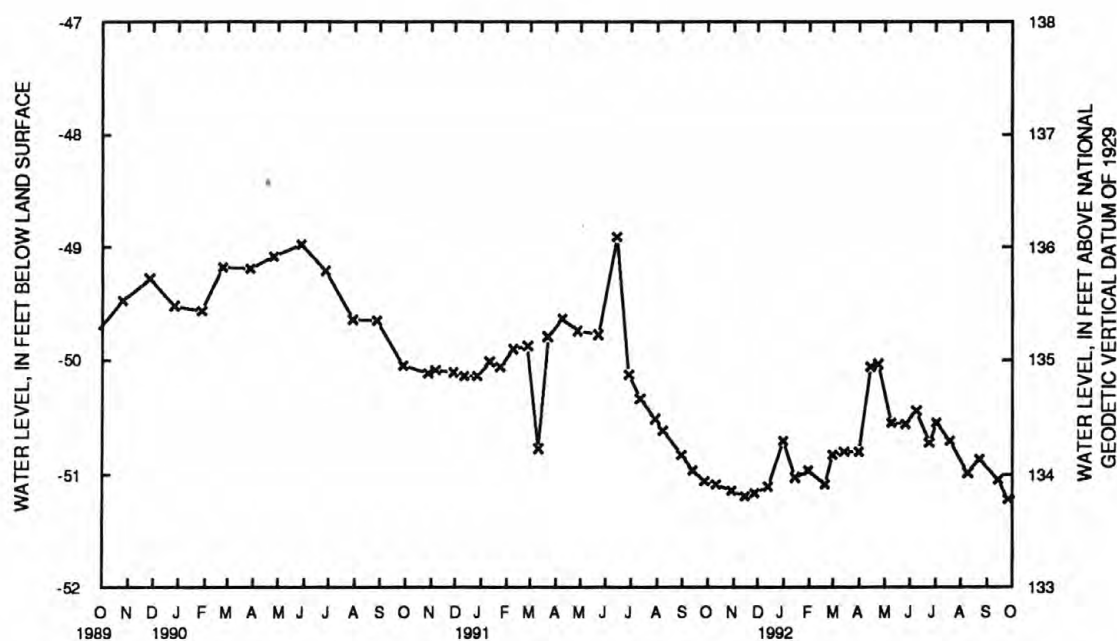
PERIOD OF RECORD--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level measured, 48.91 ft below land-surface datum, June 14, 1991; lowest measured, 51.60 ft below land-surface datum, October 28, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 11	51.08	DEC 13	51.10	FEB 19	51.08	APR 14	50.05	JUN 08	50.44	AUG 09	50.98
30	51.14	31	50.70	28	50.82	24	50.03	24	50.72	23	50.86
NOV 15	51.19	JAN 14	51.02	MAR 13	50.79	MAY 09	50.54	JUL 03	50.54	SEP 14	51.04
27	51.16	30	50.96	31	50.79	27	50.55	18	50.70	26	51.22
WATER YEAR 1992		HIGHEST	50.03	APR 24, 1992	LOWEST	51.22	SEP 26, 1992				

EW 134



415649072494801. Local Number, GR 328.

Owner: Town of Granby.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in, depth 22 ft , PVC casing, slotted 20 to 22 ft .

INSTRUMENTATION.--Prior to October 27, 1988 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 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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.59	---	---	---	11.61	12.14	8.34	9.29	11.97	---	---	12.79
2	13.59	---	---	---	11.61	12.12	8.36	9.43	11.97	---	---	12.82
3	13.62	---	---	---	11.62	12.07	8.42	9.43	11.97	---	---	12.86
4	13.69	---	---	---	11.64	11.99	8.54	9.43	11.97	---	---	12.90
5	13.78	---	---	---	11.65	11.95	8.64	9.43	11.97	---	---	12.93
6	13.86	---	---	---	11.70	11.95	8.89	9.46	10.68	---	13.20	12.95
7	13.89	---	---	---	11.74	11.89	9.00	9.59	8.00	---	13.22	12.96
8	13.91	---	---	---	11.75	11.74	9.09	9.70	7.20	---	13.23	12.98
9	---	---	---	---	11.78	11.71	9.30	9.76	7.19	---	13.27	12.99
10	---	---	---	11.48	11.92	11.64	9.43	9.81	7.19	---	13.30	13.01
11	---	---	---	11.48	11.97	11.22	9.58	9.95	---	---	13.30	13.03
12	---	---	---	11.48	11.97	10.26	9.69	10.25	---	---	13.30	13.06
13	---	---	---	11.49	12.04	9.71	9.70	10.29	---	---	13.30	13.13
14	---	---	---	11.47	12.09	9.56	9.79	10.34	---	---	13.30	13.16
15	---	---	---	11.47	12.11	9.56	9.84	10.49	---	---	13.30	13.21
16	---	---	---	11.47	12.16	9.59	9.94	10.76	---	---	13.30	13.23
17	---	---	---	11.47	12.16	9.70	9.88	10.85	---	---	13.30	13.26
18	---	---	---	11.47	12.16	9.76	9.67	10.89	---	---	12.93	13.29
19	---	---	---	11.49	12.19	9.90	9.28	10.98	---	---	12.17	13.33
20	---	---	---	11.53	12.19	9.94	8.99	11.18	---	---	11.94	13.34
21	---	---	---	11.53	12.21	10.14	8.95	11.22	---	---	11.93	13.34
22	---	---	---	11.56	12.23	10.28	8.95	11.23	---	---	11.93	13.34
23	---	---	---	11.63	12.25	10.29	8.96	11.29	---	---	11.94	13.35
24	---	---	---	11.60	12.28	10.44	9.02	11.31	---	---	12.01	13.35
25	---	---	---	11.60	12.33	10.52	9.07	11.49	---	---	12.09	13.36
26	---	---	---	11.60	12.34	10.74	9.00	11.50	---	---	12.25	13.36
27	---	---	---	11.62	12.23	9.49	8.99	11.63	---	---	12.35	13.36
28	---	---	---	11.63	12.20	8.52	8.99	11.70	---	---	12.48	13.36
29	---	---	---	11.63	12.16	8.41	9.01	11.77	---	---	12.57	13.52
30	---	---	---	11.63	---	8.39	9.10	11.89	---	---	12.67	13.53
31	---	---	---	11.61	---	8.34	---	11.96	---	---	12.75	---
MIN	13.59	---	---	11.47	11.61	8.34	8.34	9.29	7.19	---	11.93	12.79
WATER YEAR 1992		HIGHEST	7.19	JUN 9, 10, 1992		LOWEST	13.93	OCT 8, 1991				

213

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: Town of Granby.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused, water-table well, diameter 2 in, depth 22 ft, PVC casing, slotted 20 to 22 ft.

INSTRUMENTATION.--Prior to October 27, 1988 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.

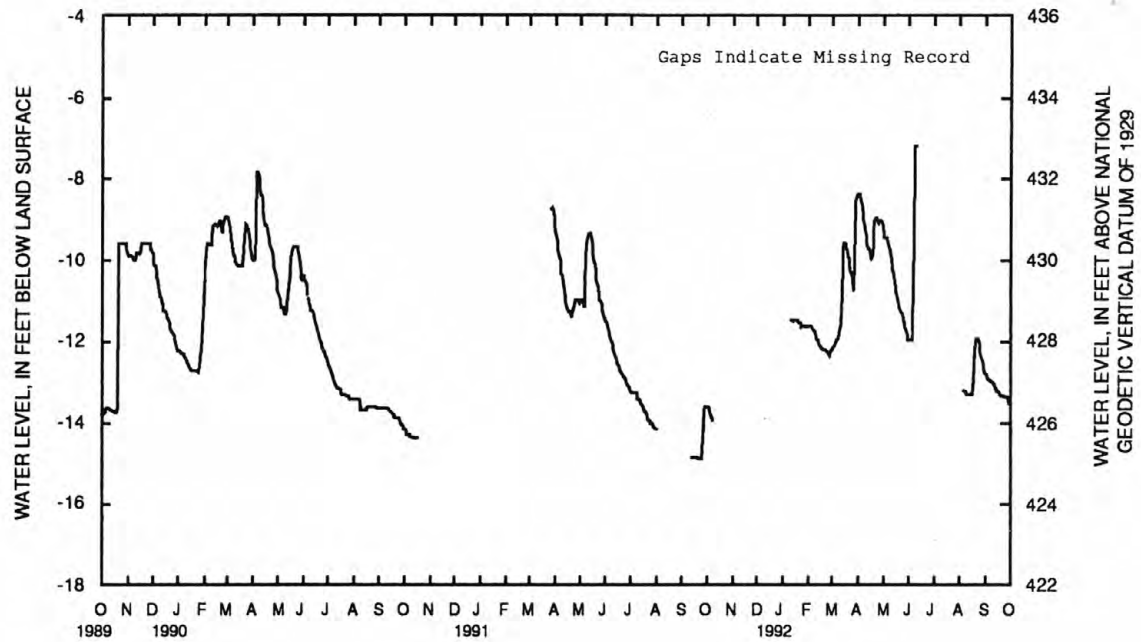
PERIOD OF RECORD.--May 1982 to current.

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.

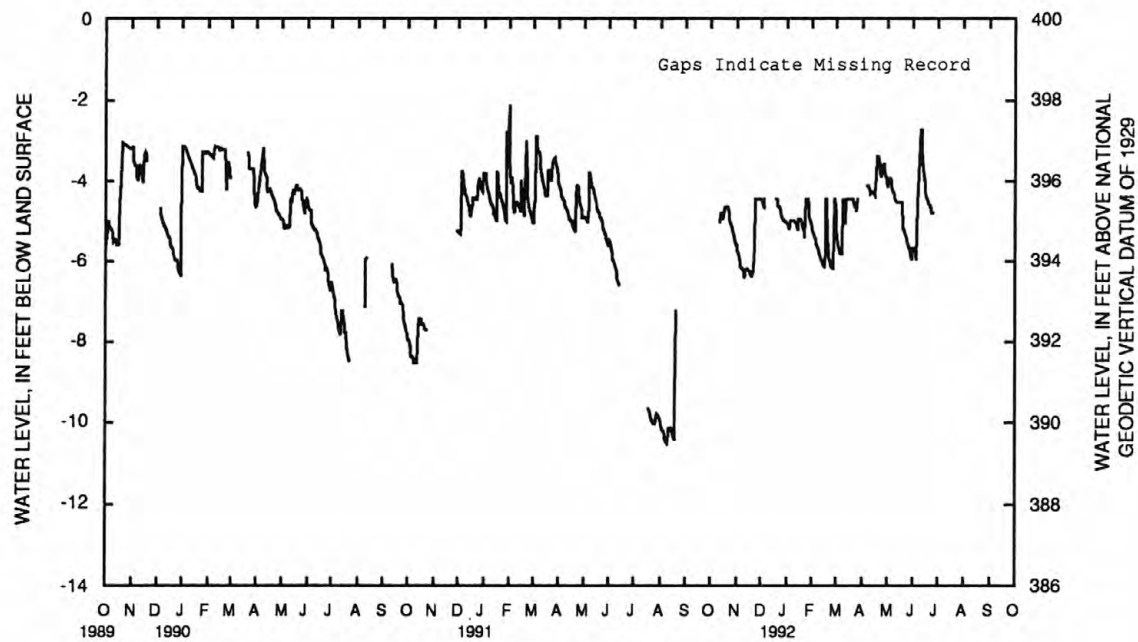
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.59	4.44	5.06	5.21	5.21	---	4.13	5.66	---	---	---
2	---	5.71	4.48	5.10	5.28	5.56	---	4.11	5.66	---	---	---
3	---	5.78	4.60	5.12	5.40	5.61	---	3.92	5.66	---	---	---
4	---	5.91	4.62	5.18	5.44	5.76	---	3.92	5.73	---	---	---
5	---	6.00	4.42	4.96	5.56	5.77	---	3.98	5.93	---	---	---
6	---	6.10	---	4.96	5.58	5.80	---	4.09	4.54	---	---	---
7	---	6.15	---	4.96	5.67	5.80	4.12	4.22	---	---	---	---
8	---	6.19	---	4.96	5.77	4.42	4.12	4.28	---	---	---	---
9	---	6.27	---	4.98	5.79	4.42	4.16	4.33	---	---	---	---
10	---	6.36	---	5.01	5.82	4.93	4.25	4.39	2.74	---	---	---
11	4.99	6.42	---	5.03	5.94	5.05	4.30	4.47	2.74	---	---	---
12	5.00	6.19	---	5.03	5.99	4.42	4.28	4.50	3.14	---	---	---
13	4.77	6.19	---	5.13	5.99	---	4.28	4.50	3.54	---	---	---
14	4.77	6.19	---	5.21	6.08	---	4.28	4.50	3.85	---	---	---
15	4.80	6.19	---	4.94	6.11	---	4.28	4.50	4.02	---	---	---
16	4.93	6.23	---	4.94	5.80	---	4.33	4.50	4.19	---	---	---
17	4.73	6.27	---	4.94	4.42	---	3.87	4.50	4.34	---	---	---
18	4.64	6.31	---	4.97	4.42	---	3.45	4.50	4.44	---	---	---
19	4.61	6.36	4.42	4.98	5.43	---	3.39	4.50	4.50	---	---	---
20	4.61	6.37	4.45	5.12	5.79	---	3.39	5.16	4.55	---	---	---
21	4.61	6.23	4.59	5.22	5.91	4.43	3.47	5.21	4.59	---	---	---
22	4.70	6.23	4.61	5.27	6.00	4.54	3.60	5.25	4.59	---	---	---
23	4.81	5.61	4.63	5.39	6.11	4.62	3.76	5.31	4.77	---	---	---
24	4.93	4.42	4.70	4.42	6.14	4.65	3.88	5.42	4.77	---	---	---
25	5.05	---	4.75	4.42	6.15	4.73	3.65	5.53	4.78	---	---	---
26	5.12	---	4.86	4.42	6.19	4.42	3.57	5.61	---	---	---	---
27	5.17	---	4.94	4.60	4.42	---	3.57	5.66	---	---	---	---
28	5.23	---	4.96	4.86	4.42	---	3.71	5.66	---	---	---	---
29	5.32	---	5.00	4.96	4.79	---	3.87	5.82	---	---	---	---
30	5.50	---	5.00	5.05	---	---	3.99	5.94	---	---	---	---
31	5.59	---	5.00	5.13	---	---	---	5.77	---	---	---	---
MIN	4.61	4.42	4.42	4.42	4.42	4.42	3.39	3.92	2.74	---	---	---
WATER YEAR 1992		HIGHEST	2.74	JUN 10, 1992		LOWEST	6.78	OCT 2-5, 1991				

GROUND-WATER LEVELS
HARTFORD COUNTY--Continued

GR 328



GR 329



215

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: Town of Granby.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water table well, diameter 2 in, depth 22 ft, PVC casing, slotted 20 to 22 ft.

INSTRUMENTATION.--Prior to October 27, 1988 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.

REMARKS.-- Water levels collected by Connecticut Department of Environmental Protection,
Natural Resources Center.

PERIOD OF RECORD.-- May 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 0.01 ft below land-surface datum, October 20, 1989; lowest measured, 5.47 ft below land-surface datum, April 10, 1987.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.95	3.02	2.88	3.05	3.11	---	---	3.20	2.85	---	---	3.41
2	3.00	3.02	2.92	3.05	3.13	---	---	2.74	2.94	---	---	3.42
3	3.05	3.02	2.94	3.06	3.15	---	---	2.69	3.19	---	---	3.38
4	3.16	3.02	2.86	3.00	3.17	---	---	2.86	3.34	---	---	3.38
5	3.24	2.99	2.86	3.00	3.17	---	---	2.96	1.02	---	---	3.38
6	2.73	2.97	2.86	3.00	3.17	---	---	3.07	---	---	3.44	3.40
7	2.73	2.97	2.87	3.00	3.20	---	---	3.14	---	---	3.46	3.41
8	2.74	2.97	2.87	3.00	3.21	---	3.27	3.20	---	---	3.47	3.41
9	---	2.97	2.87	3.00	3.21	---	3.27	3.25	---	---	2.69	3.41
10	---	2.97	2.87	3.08	3.21	---	3.27	3.25	---	---	2.80	3.43
11	3.08	2.97	2.87	3.08	3.26	---	3.27	3.28	---	---	2.91	3.42
12	3.08	2.97	2.87	3.10	3.26	---	2.97	3.33	---	---	2.80	3.42
13	3.09	3.03	2.87	3.12	3.27	---	2.99	3.33	---	---	2.91	3.43
14	3.09	3.03	2.87	3.11	3.30	---	3.13	3.35	---	---	3.21	3.47
15	3.09	3.03	2.87	3.11	3.29	---	3.20	3.37	---	---	3.24	3.48
16	3.09	3.03	2.87	3.11	---	---	3.25	3.41	---	---	3.31	3.51
17	3.09	3.03	2.87	3.11	---	---	2.71	3.42	---	---	3.02	3.52
18	3.09	3.03	2.87	3.11	---	---	2.65	3.42	---	---	1.81	3.56
19	3.09	3.03	2.93	3.11	---	---	2.65	3.43	---	---	2.13	3.55
20	3.09	3.03	2.95	3.11	---	---	2.74	3.45	---	---	2.52	3.55
21	3.09	---	2.95	3.11	---	---	2.87	3.46	---	---	2.82	3.56
22	3.09	---	2.95	3.13	---	---	2.94	3.49	---	---	2.98	3.58
23	3.09	---	2.96	2.55	---	---	3.00	3.52	---	---	3.20	3.42
24	3.09	---	2.99	2.55	---	---	3.05	3.53	---	---	3.29	3.42
25	3.09	---	3.00	2.71	---	---	2.86	3.54	---	---	3.34	3.49
26	3.09	---	3.02	2.90	---	---	2.86	3.54	---	---	3.37	3.51
27	3.08	2.86	3.06	3.01	---	---	2.89	3.54	---	---	3.40	3.45
28	3.07	2.86	3.06	3.05	---	---	2.96	3.58	---	---	3.41	3.45
29	3.05	2.86	3.06	3.10	---	---	3.06	3.59	---	---	3.21	3.45
30	3.03	2.87	3.05	3.11	---	---	3.13	3.60	---	---	3.23	3.48
31	3.02	---	3.05	3.11	---	---	---	2.90	---	---	3.38	---
MIN	2.73	2.86	2.86	2.55	3.11	---	2.65	2.69	1.02	---	1.81	3.38
WATER YEAR 1992		HIGHEST	1.02	JUN 2, 1992		LOWEST	3.64	MAY 31, SEP 22, 23, 1992				

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: Town of Granby.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Bored, unused, water table well, diameter 2 in, depth 31.5 ft, PVC casing, slotted 29.5 to 31.5 ft.

INSTRUMENTATION.--Prior to October 27, 1988 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.

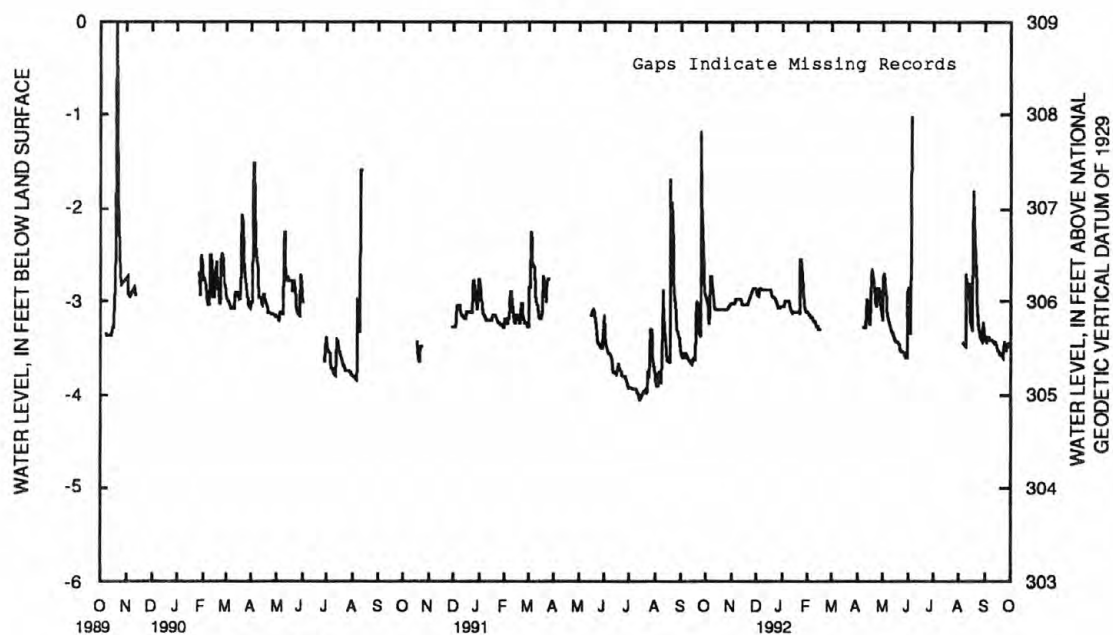
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.41 ft below land-surface datum, April 22, 1983; lowest measured, 13.30 ft below land-surface datum, September 29, 1983.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.42	9.46	8.78	10.06	10.15	10.34	7.56	8.66	10.59	9.90	10.69	11.36
2	8.54	9.64	8.84	10.06	10.20	10.25	7.60	8.78	10.54	10.02	10.65	11.19
3	8.69	9.68	8.90	10.06	10.25	10.25	7.65	8.77	10.49	10.17	10.64	11.10
4	8.83	9.73	9.06	10.08	10.28	10.25	7.77	8.75	10.49	10.20	10.64	11.05
5	8.95	9.87	9.12	10.11	10.36	10.25	7.85	8.75	10.32	10.22	10.64	10.94
6	9.12	10.00	9.03	10.07	10.43	10.25	7.99	8.78	8.15	10.24	10.52	10.80
7	9.06	10.05	8.94	10.03	10.48	10.27	8.16	8.87	7.42	10.27	10.45	10.75
8	9.03	10.09	8.88	10.01	10.52	10.33	8.56	8.95	6.88	10.30	10.43	10.70
9	---	10.13	8.88	10.01	10.56	10.26	8.67	8.98	6.33	10.33	10.41	10.65
10	---	10.21	8.88	10.00	10.63	10.22	8.79	9.09	6.32	10.36	10.67	10.63
11	9.02	10.26	8.88	10.00	10.71	10.15	8.94	9.20	---	10.38	11.06	10.61
12	9.03	10.31	8.88	10.02	10.76	9.68	8.98	9.33	6.65	10.42	11.28	10.57
13	8.99	10.27	8.91	10.06	10.87	9.04	8.99	9.39	6.97	10.45	11.42	10.53
14	8.91	10.21	8.96	10.08	10.90	8.65	9.08	9.42	7.34	10.52	11.45	10.49
15	8.87	10.19	9.00	10.11	10.94	8.56	9.13	9.50	7.60	10.59	11.43	10.42
16	8.86	10.15	9.00	10.08	11.00	8.55	9.22	9.58	7.95	10.53	11.40	10.36
17	8.83	10.14	9.05	10.03	10.99	8.55	9.25	9.76	8.19	10.42	11.40	10.32
18	8.78	10.14	9.12	9.88	10.99	8.62	9.00	9.81	8.38	10.42	11.40	---
19	8.66	10.16	9.13	9.87	10.95	8.67	8.88	9.85	8.65	10.42	11.98	---
20	8.62	10.18	9.21	9.87	10.92	8.82	8.71	9.99	8.81	10.42	11.98	---
21	8.61	10.22	9.25	9.91	10.90	8.85	8.63	10.14	9.00	10.44	11.98	---
22	8.61	10.25	9.28	10.04	10.87	9.00	8.62	10.18	9.15	10.48	11.98	---
23	8.64	10.14	9.32	10.08	10.84	9.17	8.62	10.22	9.33	10.59	11.98	---
24	8.73	9.50	9.37	10.15	10.81	9.24	8.62	10.26	9.42	10.60	11.98	---
25	8.84	8.92	9.45	10.04	10.78	9.27	8.63	10.33	9.45	10.61	11.98	10.82
26	8.91	8.64	9.63	10.03	10.71	9.36	8.60	10.38	9.51	10.63	11.98	10.78
27	9.04	8.60	9.68	10.02	10.60	9.43	8.58	10.44	9.58	10.65	11.94	10.78
28	9.18	8.60	9.73	10.02	10.50	8.64	8.58	10.56	9.63	10.68	11.85	10.76
29	9.25	8.60	9.88	10.04	10.42	7.74	8.58	10.60	9.81	10.70	11.70	10.73
30	9.30	8.64	9.99	10.08	---	7.58	8.61	10.66	9.84	10.72	11.56	10.71
31	9.37	---	10.04	10.11	---	7.56	---	10.70	---	10.74	11.43	---
MIN	8.42	8.60	8.78	9.87	10.15	7.56	7.56	8.66	6.32	9.90	10.41	10.32
WATER YEAR 1992	HIGHEST	6.32	JUN 10,	1992	LOWEST	11.98	AUG 19-26,	1992				

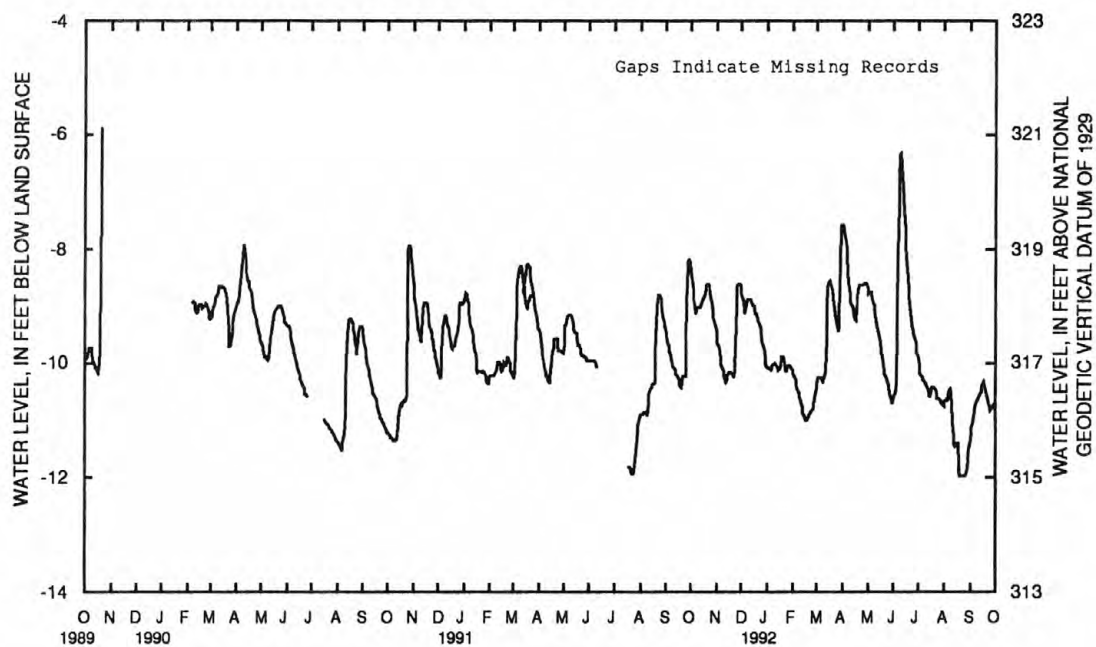
GROUND-WATER LEVELS
HARTFORD COUNTY--Continued

217

GR 330



GR 331



GROUND-WATER LEVELS

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, PVC casing, screened 14.6 to 16.5 ft.

INSTRUMENTATION.--Prior to September 1991 measurements made monthly, since September 1991 measurements made 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.

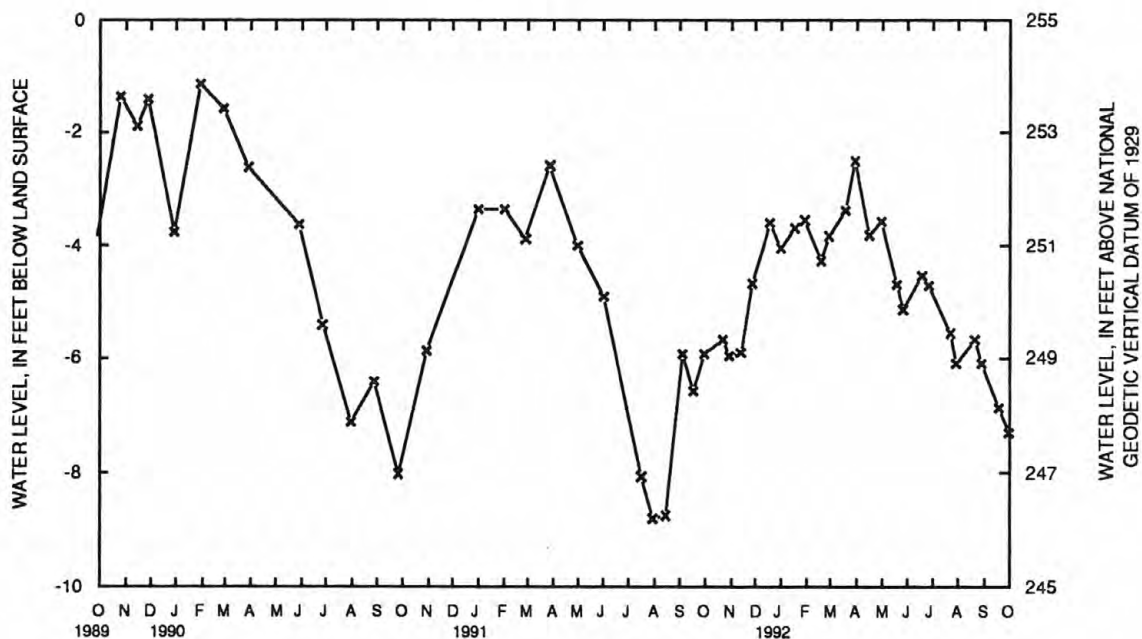
PERIOD OF RECORD.--January 1986 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 22	5.67	DEC 18	3.59	FEB 18	4.27	APR 16	3.81	JUN 18	4.55	AUG 20	5.67
30	5.95	31	4.04	27	3.83	30	3.57	26	4.72	28	6.09
NOV 13	5.90	JAN 17	3.68	MAR 18	3.37	MAY 19	4.70	JUL 22	5.56	SEP 18	6.86
27	4.68	29	3.54	30	2.50	26	5.15	29	6.09	30	7.30
WATER YEAR 1992		HIGHEST	2.50	MAR 30, 1992	LOWEST	7.30	SEP 30, 1992				

MB 32



GROUND-WATER LEVELS

219

HARTFORD COUNTY--Continued

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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, 1992.

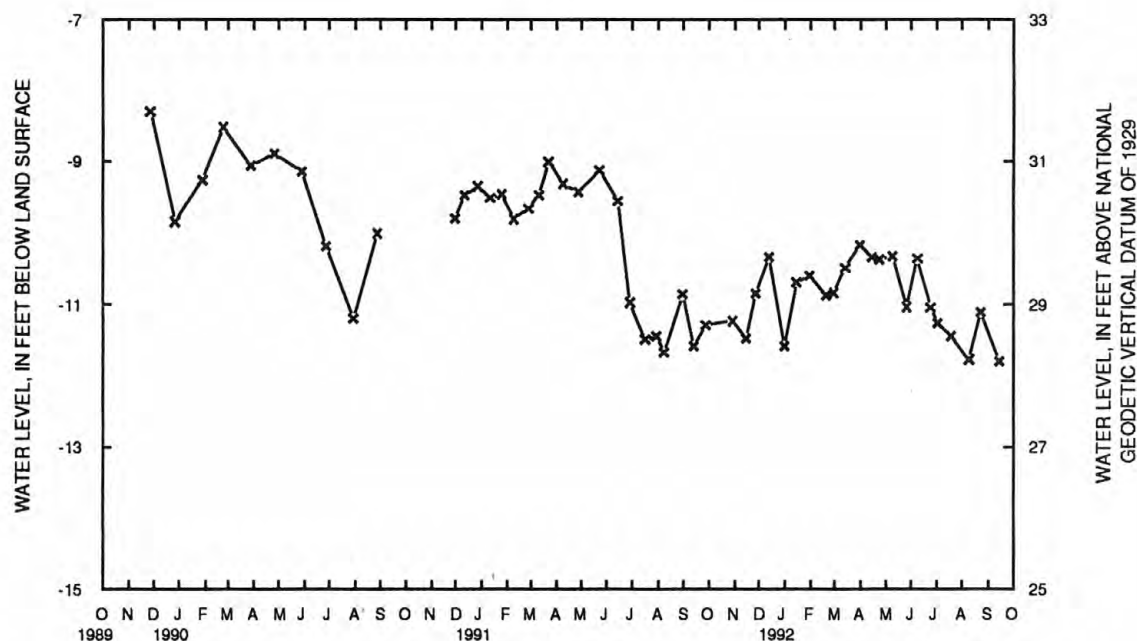
PERIOD OF RECORD.--November 1934 to September 1939 and October 1948 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 30	11.23	DEC 31	11.58	FEB 28	10.83	APR 24	10.36	JUN 24	11.04	AUG 23	11.10
NOV 15	11.47	JAN 14	10.68	MAR 13	10.48	MAY 09	10.32	JUL 03	11.26	SEP 14	11.79
27	10.84	30	10.59	31	10.16	27	11.03	18	11.44	26	OBSTRUCT
DEC 13	10.33	FEB 19	10.87	APR 14	10.33	JUN 08	10.35	AUG 09	11.77		
WATER YEAR 1992		HIGHEST	10.16	MAR 31, 1992	LOWEST	11.79	SEP 14, 1992				

SW 64



GROUND-WATER LEVELS

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 weekly, July 18, 1988 to August 31, 1989. Prior to July 18, 1988 measured monthly, and since August 31, 1989 measured biweekly 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.

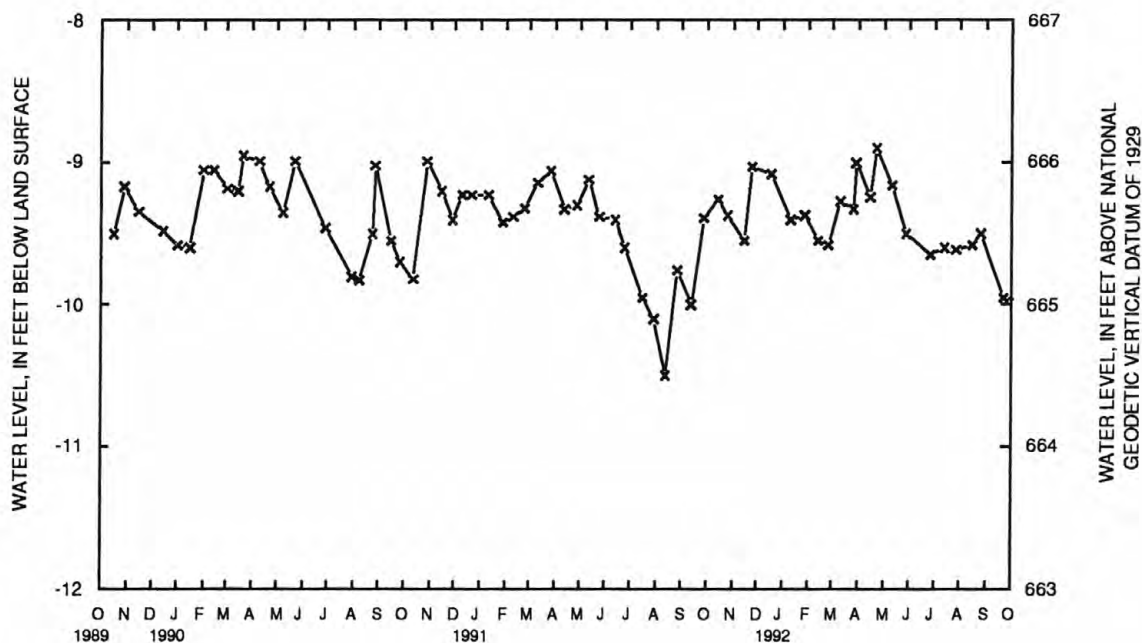
PERIOD OF RECORD.--August 1958 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 14	9.26	DEC 18	9.08	FEB 24	9.58	APR 15	9.24	JUN 26	9.65	AUG 26	9.50
26	9.37	JAN 10	9.40	MAR 10	9.27	22	8.90	JUL 13	9.60	SEP 22	9.95
NOV 15	9.55	27	9.37	26	9.33	MAY 11	9.16	27	9.61		
24	9.03	FEB 12	9.55	29	9.00	28	9.50	AUG 15	9.58		
WATER YEAR 1992		HIGHEST	8.90	APR 22, 1992	LOWEST	9.95	SEP 22, 1992				

NOC 7



GROUND-WATER LEVELS

221

LITCHFIELD COUNTY--Continued

415925073252001. Local Number, SY 15

LOCATION.--Lat 41°55'25", long 73°25'20", Hydrologic Unit 01100005; 800 ft east of State Route 41 on Lower Cobble Road, 8 ft south of pavement and 10 ft east of fence, Salisbury; Sharon quadrangle. Owner: Town of Salisbury

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water table well, diameter 2 in, depth 27.4 ft, PVC casing, screened 24 to 27.4 ft.

INSTUMENTATION.--Measurements made weekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 695 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: At land-surface datum.

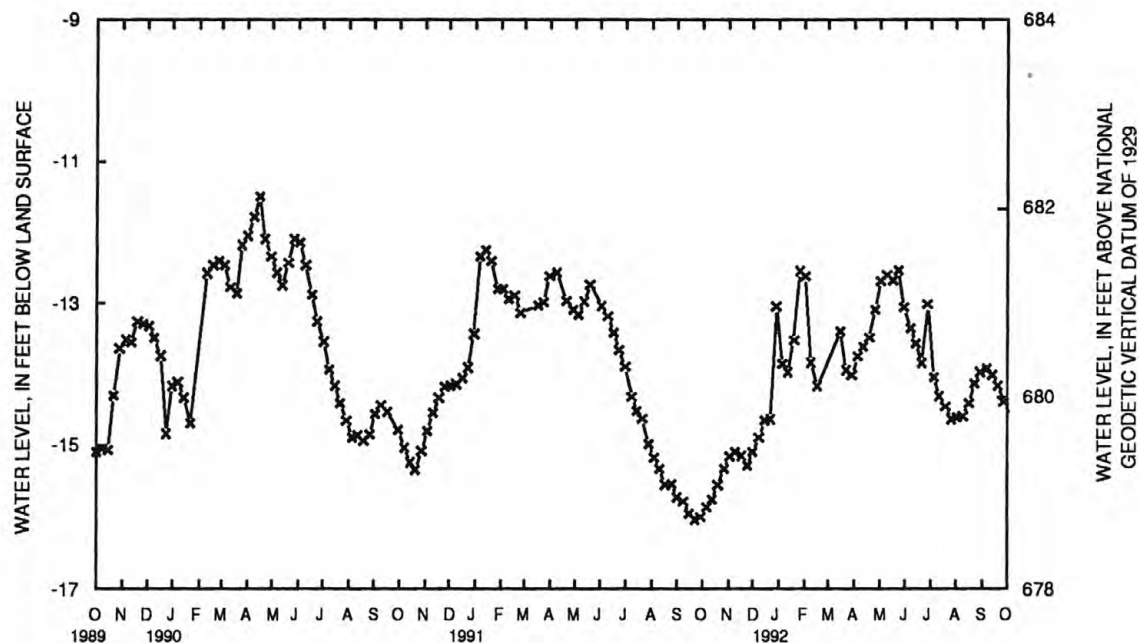
PERIOD OF RECORD.--December 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.85 ft below land-surface datum, May 28, 1989; lowest measured, 16.03 ft below land-surface datum, September 22, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL
OCT 06 15.85	DEC 08 14.88	FEB 09 13.83	APR 12 13.61	JUN 14 13.56	AUG 16 14.41
13 15.75	15 14.66	16 14.17	19 13.49	21 13.84	23 14.13
20 15.55	22 14.63	23 OBSTRUCTION	26 13.08	28 13.01	30 13.97
27 15.32	29 13.04	MAR 01 OBSTRUCTION	MAY 03 12.68	JUL 05 14.04	SEP 06 13.92
NOV 03 15.15	JAN 05 13.86	08 OBSTRUCTION	10 12.59	12 14.31	13 14.01
10 15.09	12 13.97	15 13.39	17 12.67	19 14.46	20 14.16
17 15.14	19 13.52	22 13.94	24 12.53	26 14.63	27 14.39
24 15.27	26 12.54	29 14.01	31 13.06	AUG 02 14.61	
DEC 01 15.08	FEB 02 12.61	APR 05 13.75	JUN 07 13.35	09 14.59	
WATER YEAR 1992	HIGHEST 12.53	MAY 24, 1992	LOWEST 15.85	OCT 06, 1991	

SY 15



GROUND-WATER LEVELS

LITCHFIELD COUNTY--Continued

415554073253401. Local Number, SY 23

LOCATION.--Lat 41°55'54", long 73°25'34", Hydrologic Unit 01100005; 450 ft south of junction of Race Track Road on State Route 112, 30 ft southwest of pavement and 10 ft east of woods, Salisbury; Sharon quadrangle. Owner: Connecticut Department of Transportation.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.-- Augered, unused, water-table well, diameter 2 in, depth 51 ft, PVC casing, screened 48 to 51 ft.

INSTRUMENTATION.--Measurements made weekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 939 ft above National Geodetic Vertical Datum of 1929, from a topographic map. Measuring point: Top of PVC casing, 1.50 ft above land-surface datum.

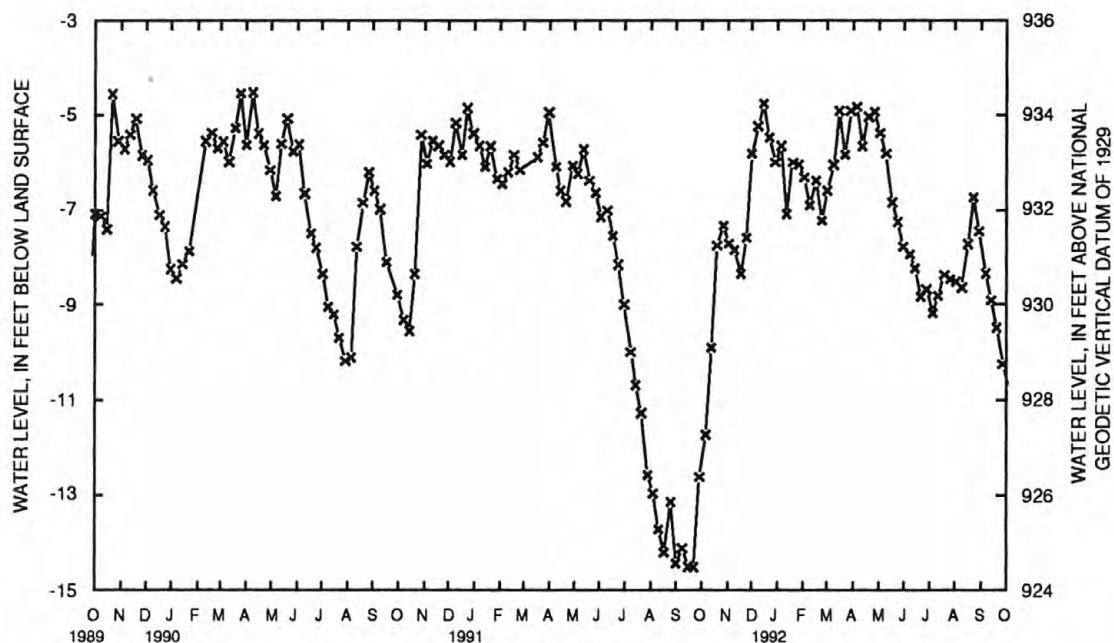
PERIOD OF RECORD.--December 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.51 ft below land-surface datum, April 8, 1990; lowest measured, 14.51 ft below land-surface datum, September 22, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL
OCT 06 11.71	DEC 08 5.22	FEB 09 6.89	APR 12 5.64	JUN 14 8.23	AUG 16 7.71
13 9.89	15 4.75	16 6.39	19 5.03	21 8.83	23 6.72
20 7.74	22 5.46	23 7.21	26 4.92	28 8.68	30 7.45
27 7.32	29 5.99	MAR 01 6.59	MAY 03 5.37	JUL 05 9.18	SEP 06 8.33
NOV 03 7.69	JAN 05 5.63	08 6.05	10 5.81	12 8.81	13 8.89
10 7.83	12 7.08	15 4.91	17 6.83	19 8.37	20 9.48
17 8.35	19 5.99	22 5.82	24 7.25	26 8.46	27 10.24
24 7.59	26 6.04	29 4.91	31 7.76	AUG 02 8.51	
DEC 01 5.81	FEB 02 6.32	APR 05 4.81	JUN 07 7.93	09 8.63	
WATER YEAR 1992	HIGHEST 4.75	DEC 15, 1991	LOWEST 11.71	OCT 06, 1991	

SY 23



GROUND-WATER LEVELS

223

LITCHFIELD COUNTY--Continued

415956073241501. Local Number SY 24

LOCATION.--Lat 41°59'56", long 73°24'15", Hydrologic Unit 01100005; near junction of State Route 44 and Taconic Road, 115 ft north of Route 44 and 50 ft east of Taconic Road, 5 ft north of fence, Salisbury; Sharon quadrangle. Owner: Town of Salisbury

AQUIFER.--Stratified drift of Pleistocene age.

WELL CHARACTERISTICS.-- Augered, unused, water-table well, diameter 2 in, depth 28.27 ft, PVC casing, screened 25.7 to 28.7 ft.

INSTRUMENTATION.--Measurements made weekly with a chalked tape by paid observer.

DATUM.--Elevation of land-surface datum is 815 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC casing, 2.00 ft above land-surface datum.

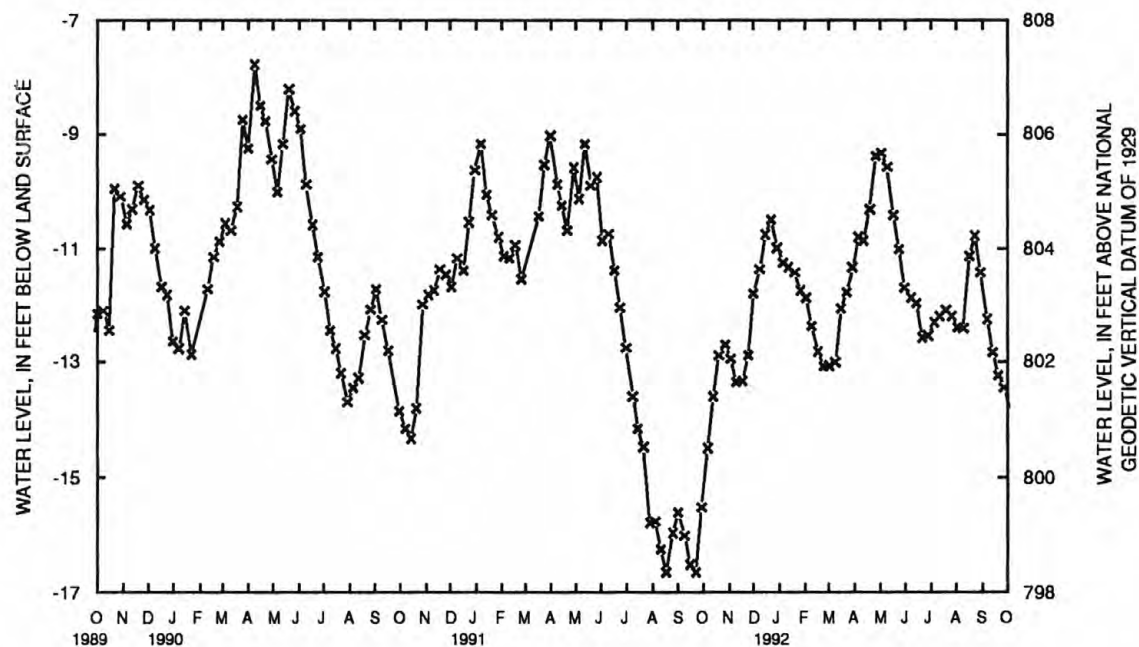
PERIOD OF RECORD.--December 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.77 ft below land-surface datum, April 8, 1990; lowest measured, 16.64 ft below land-surface datum, August 17, and September 22, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 06	14.48	DEC 08	11.35	FEB 09	12.35	APR 12	10.85	JUN 14	11.95	AUG 16	11.12						
13	13.59	15	10.75	16	12.81	19	10.31	21	12.56	23	10.77						
20	12.87	22	10.49	23	13.07	26	9.38	28	12.52	30	11.41						
27	12.69	29	10.98	MAR 01	13.06	MAY 03	9.32	JUL 05	12.29	SEP 06	12.23						
NOV 03	12.93	JAN 05	11.24	08	12.99	10	9.57	12	12.19	13	12.82						
10	13.33	12	11.33	15	12.05	17	10.41	19	12.08	20	13.22						
17	13.32	19	11.41	22	11.76	24	11.01	26	12.19	27	13.43						
24	12.88	26	11.73	29	11.33	31	11.68	AUG 02	12.38								
DEC 01	11.78	FEB 02	11.86	APR 05	10.79	JUN 07	11.85	09	12.40								
WATER YEAR 1992		HIGHEST	9.32	MAY 03, 1992	LOWEST	14.48	OCT 06, 1991										

SY 24



GROUND-WATER LEVELS

LITCHFIELD COUNTY--Continued

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 Boulthbee.

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

REMARKS.--Water level data available October 1913 through December 1916, not included in period of record due to lack of documentation of measuring point height.

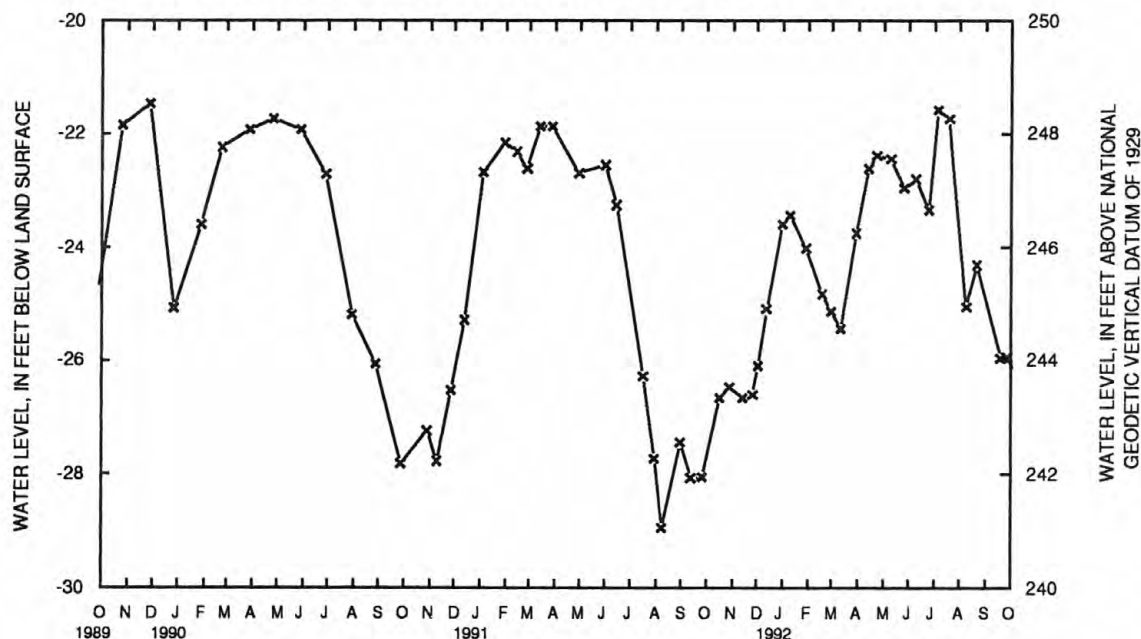
PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.70 ft below land-surface datum, April 26, 1983; lowest measured, 30.81 ft below land-surface datum, September 24, 1981

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 17	26.65	DEC 12	25.09	FEB 28	25.12	MAY 10	22.43	JUL 19	21.72
29	26.45	31	23.59	MAR 11	25.43	26	22.96	AUG 09	25.05
NOV 14	26.64	JAN 09	23.43	30	23.75	JUN 09	22.79	22	24.31
26	26.59	29	24.01	APR 13	22.60	25	23.34	SEP 19	25.95
DEC 02	26.09	FEB 18	24.83	23	22.38	JUL 05	21.57	27	25.93
WATER YEAR 1992		HIGHEST	21.57	JUL 05, 1992	LOWEST	26.65	OCT 17, 1991		

WY 1



GROUND-WATER LEVELS

225

MIDDLESEX COUNTY

411832072325501. Local number, CL 223.

LOCATION.--Lat 41°18'32", long 72°32'55", Hydrologic Unit 01100004, 50 ft west of intersection of Cow Hill Rd and Sassafrass Drive, 10 ft south of curb, at tree line, Clinton; Clinton quadrangle.
 Owner: Town of Clinton.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 64 ft, PVC casing, screened 59 to 64 ft.

INSTRUMENTATION.--Measurements made biweekly by a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 205 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.08 ft above land-surface datum.

REMARKS.--

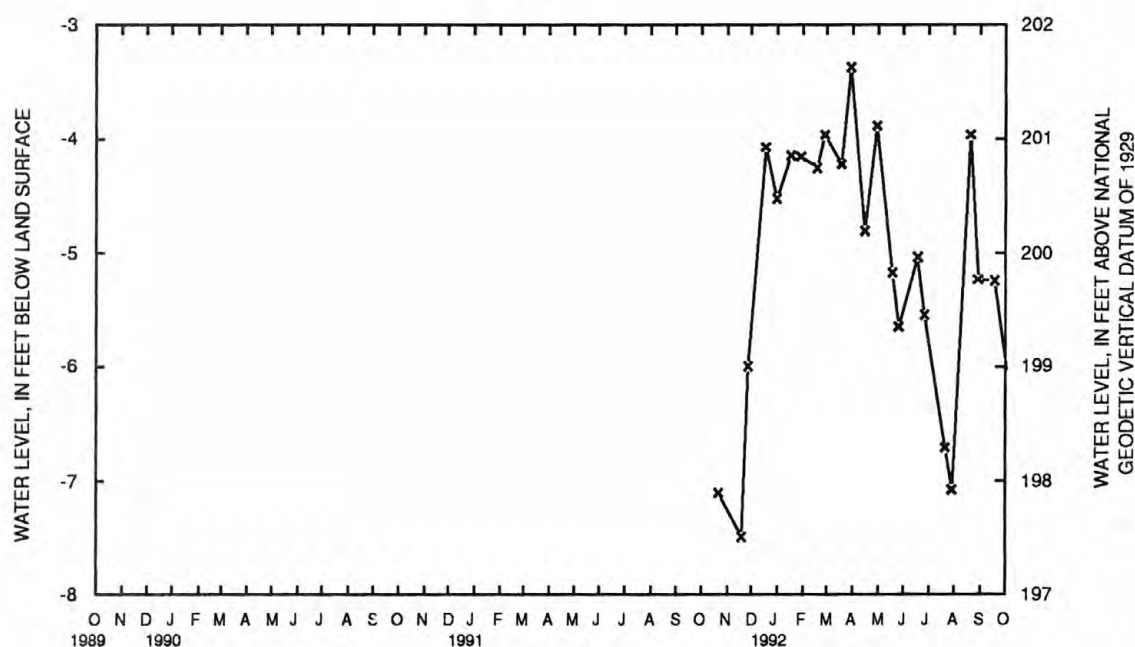
PERIOD OF RECORD.-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.37 ft below land-surface datum, March 30, 1992; lowest measured, 7.49 ft below land-surface datum, November 19, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL
OCT 22 7.10	DEC 31 4.52	FEB 27 3.96	APR 30 3.88	JUN 26 5.54	AUG 29 5.23	
NOV 19 7.49	JAN 17 4.14	MAR 18 4.22	MAY 19 5.17	JUL 21 6.71	SEP 18 5.24	
27 5.99	29 4.15	30 3.37	26 5.64	29 7.07		
DEC 18 4.06	FEB 18 4.25	APR 16 4.80	JUN 18 5.03	AUG 20 3.96		
WATER YEAR 1992	HIGHEST 3.37	MAR 30, 1992	LOWEST 7.49	NOV 19, 1991		

CL 223



GROUND-WATER LEVELS

MIDDLESEX COUNTY--Continued

411826072322401. Local number, CL 224.

LOCATION.--Lat 41°18'26", long 72°32'24", Hydrologic Unit 01100004, east end of Colonial Drive, well is 20 ft east of curb at storm drain, Clinton; Clinton quadrangle.
Owner: Town of Clinton.

AQUIFER.-- Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 25 ft, PVC casing, screened 20 to 25 ft.

INSTRUMENTATION.--Measurements made biweekly by 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 casing, 0.57 ft above land-surface datum.

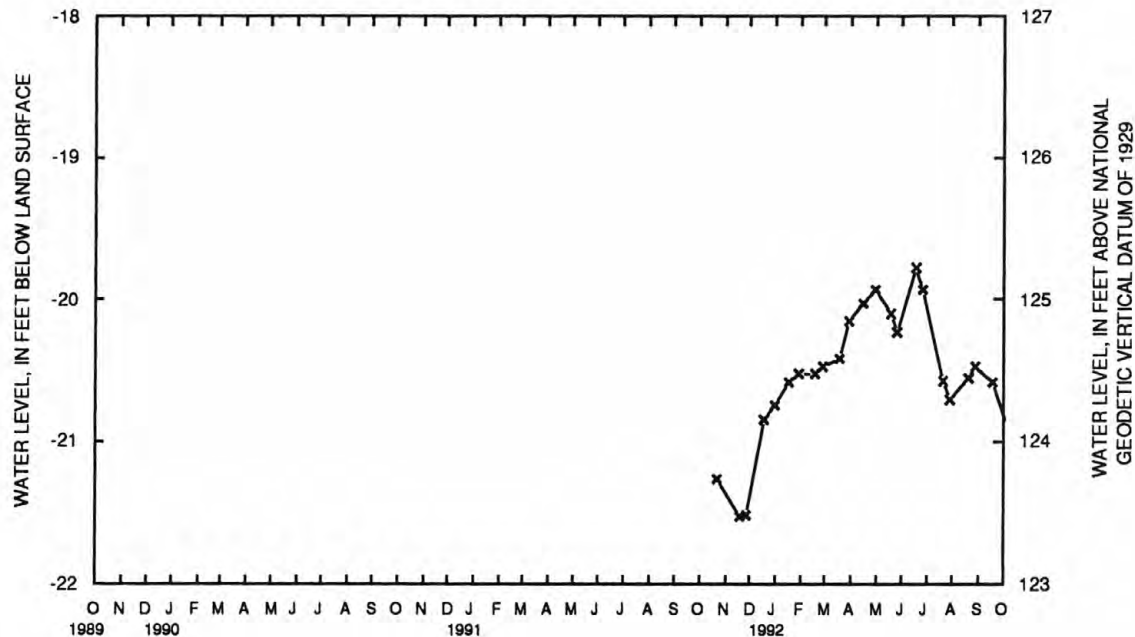
PERIOD OF RECORD.-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.77 ft below land-surface datum, June 18, 1992; lowest measured, 21.52 ft below land-surface datum, November 19, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 22	21.26	DEC 31	20.74	FEB 27	20.47	APR 30	19.93	JUN 26	19.93	AUG 28	20.47
NOV 19	21.52	JAN 17	20.58	MAR 18	20.41	MAY 19	20.10	JUL 21	20.57	SEP 18	20.58
27	21.51	29	20.52	30	20.15	26	20.23	29	20.70		
DEC 18	20.84	FEB 18	20.52	APR 16	20.03	JUN 18	19.77	AUG 20	20.55		
WATER YEAR 1992		HIGHEST	19.77	JUN 18, 1992	LOWEST	21.52	NOV 19, 1991				

CL 224



GROUND-WATER LEVELS

227

MIDDLESEX COUNTY--Continued

411735072315001. Local number, CL 225.

LOCATION.--Lat 41°17'35", long 72°31'50", Hydrologic Unit 01100004, about 200 ft south of the intersection of Cow Hill Rd and Route 81, well is 200 ft east of Route 81 at edge of field, Clinton; Clinton quadrangle.

Owner: Town of Clinton, Board of Education.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 30 ft, PVC casing, screened 25 to 30 ft.

INSTRUMENTATION.--Measurements made biweekly by 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 casing, 1.88 ft above land-surface datum.

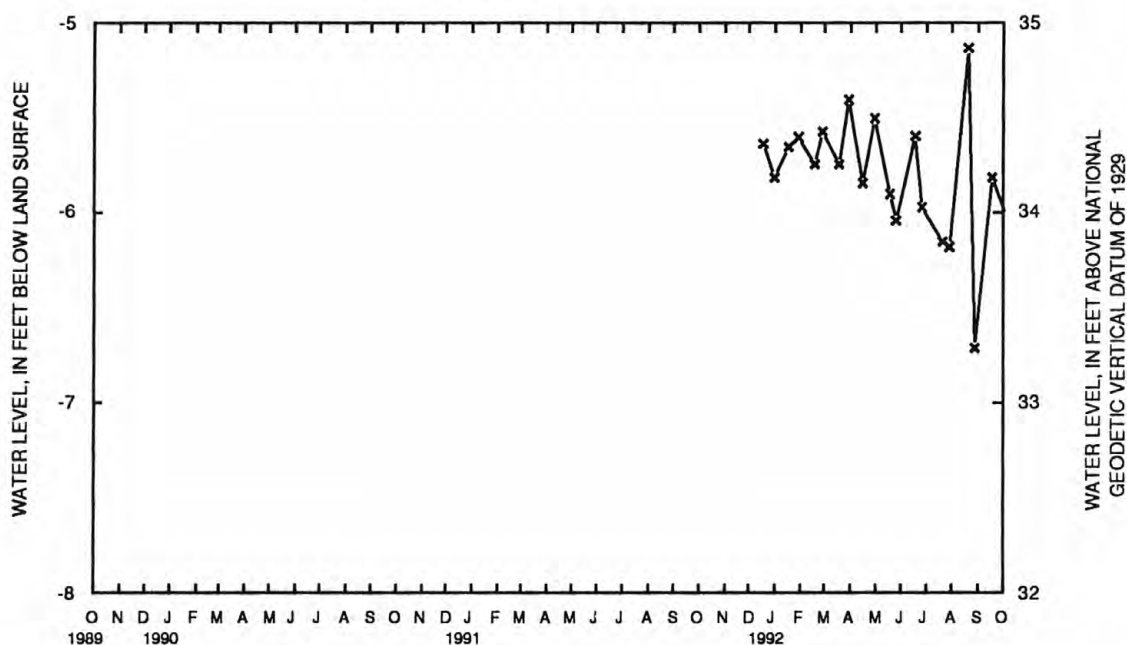
PERIOD OF RECORD.--December 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.13 ft below land-surface datum, August 20, 1992; lowest measured, 6.71 ft below land-surface datum, August 28, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
DEC 18	5.63	FEB 18	5.74	APR 16	5.84	JUN 18	5.59	AUG 20	5.13
31	5.81	27	5.57	30	5.50	26	5.97	28	6.71
JAN 17	5.65	MAR 18	5.74	MAY 19	5.90	JUL 21	6.15	SEP 18	5.81
29	5.60	30	5.40	26	6.04	29	6.18		
WATER YEAR 1992		HIGHEST	5.13	AUG 20, 1992	LOWEST	6.71	AUG 28, 1992		

CL 225



GROUND-WATER LEVELS

MIDDLESEX COUNTY--Continued

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.

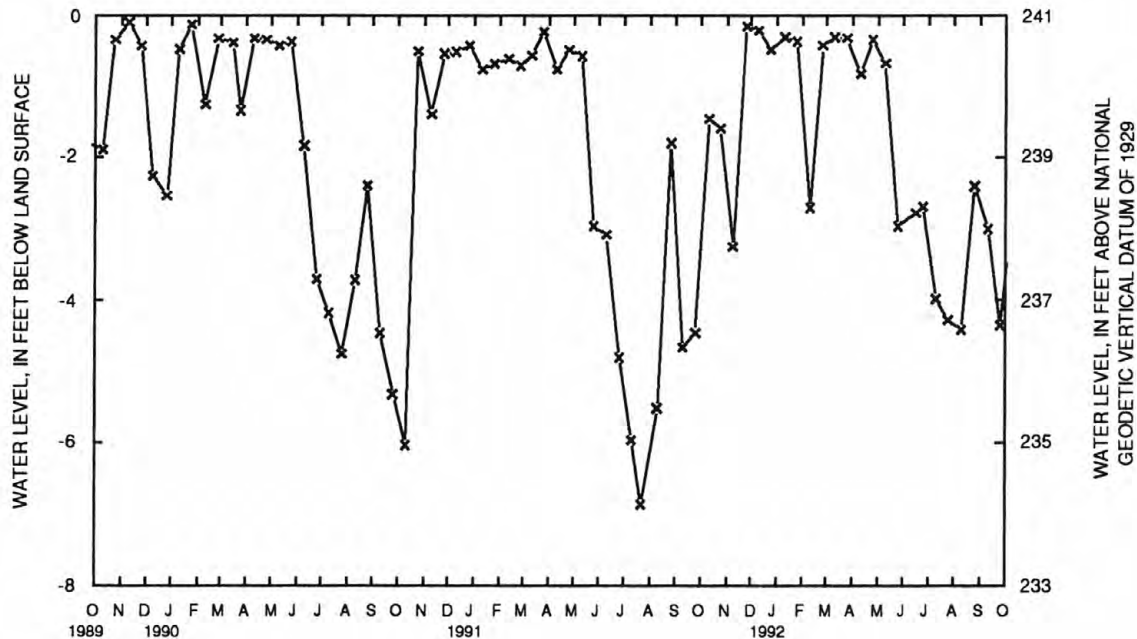
PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.02 ft above land-surface datum, June 10, 1989; lowest measured, 9.29 ft below land-surface datum, September 11, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	1.46	DEC 10	.21	FEB 10	2.71	APR 10	.82	JUN 16	2.78	AUG 10	4.41
25	1.59	24	.49	25	.43	25	.34	25	2.68	25	2.40
NOV 09	3.26	JAN 10	.31	MAR 10	.31	MAY 10	.67	JUL 10	3.98	SEP 10	3.00
25	.15	25	.37	25	.32	25	2.97	25	4.27	25	4.35
WATER YEAR 1992		HIGHEST	.15	NOV 25, 1991	LOWEST	4.41	AUG 10, 1992				

D 116



GROUND-WATER LEVELS

229

MIDDLESEX COUNTY--Continued

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.

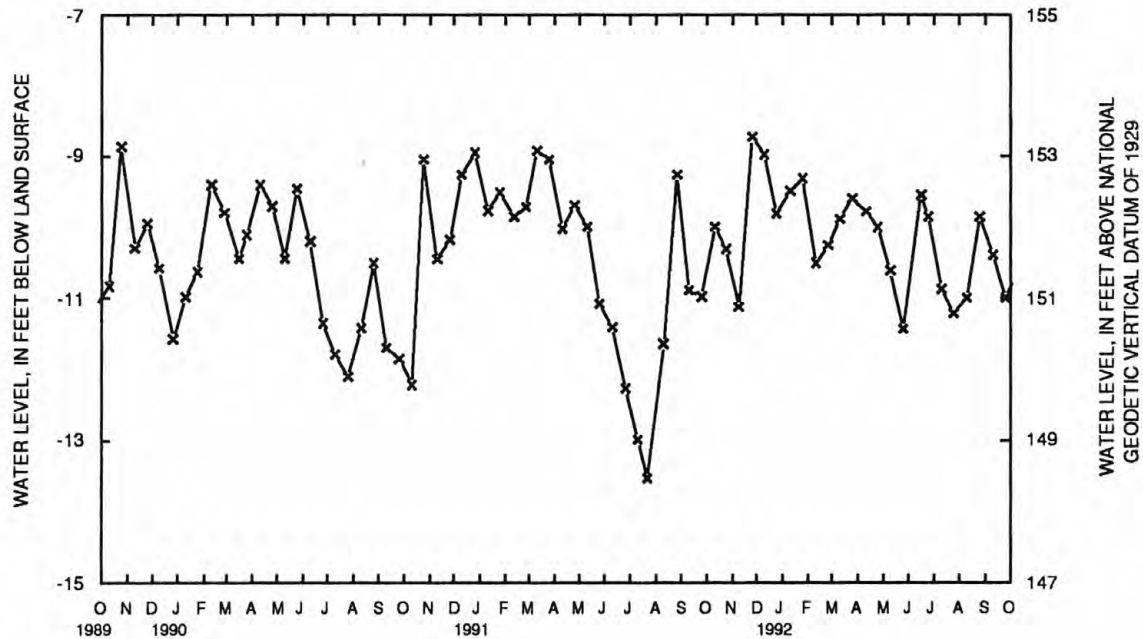
Owner: Town of Durham, Fair Grounds Association.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	9.99	DEC 10	8.97	FEB 10	10.51	APR 10	9.78	JUN 16	9.54	AUG 10	10.99
25	10.31	24	9.81	25	10.26	25	10.00	25	9.85	25	9.85
NOV 09	11.12	JAN 10	9.49	MAR 10	9.88	MAY 10	10.61	JUL 10	10.87	SEP 10	10.39
25	8.72	25	9.31	25	9.59	25	11.42	25	11.21	25	10.99
WATER YEAR 1992		HIGHEST	8.72	NOV 25, 1991	LOWEST	11.42	MAY 25, 1992				

D 117



412824072411902. Local Number, D 119.

AQUIFER.--Stratified drift of Pleistocene age.

INSTRUMENTATION.--Measurements made biweekly with a chalked tape by paid observer.

REMARKS.--Shallow, southern well of pair.

PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.01 ft below land-surface datum, December 10, 1989; lowest level measured, 3.56 ft below land-surface datum, August 26, 1987.

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 11	.21	DEC 10	.24	FEB 10	1.48	APR 10	.97	JUN 16	1.62
25	.81	24	.49	25	.35	25	.41	25	1.24
NOV 09	1.64	JAN 10	1.20	MAR 10	.32	MAY 10	1.26	JUL 10	1.74
25	.24	25	.66	25	.37	25	2.34	25	1.77
WATER YEAR 1992		HIGHEST	.21	OCT 11, 1991	LOWEST	2.34	MAY 25, 1992		

WATER LEVEL, IN FEET BELOW LAND SURFACE

WATER LEVEL, IN FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM OF 1929

1989 1990 1991 1992

O N D J F M A M J J A S O N D J F M A M J J A S O

GROUND-WATER LEVELS

231

MIDDLESEX COUNTY--Continued

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 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.

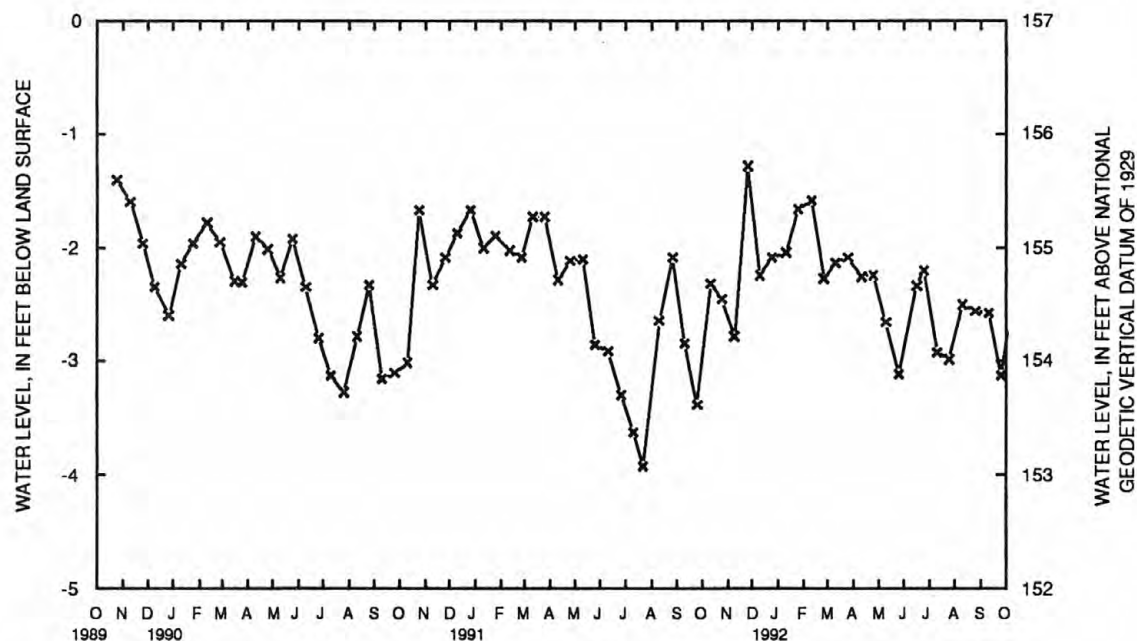
PERIOD OF RECORD.--January 1986 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	2.31	DEC 10	2.24	FEB 10	1.58	APR 10	2.25	JUN 16	2.33	AUG 10	2.50
25	2.45	24	2.08	25	2.27	25	2.24	25	2.20	25	2.55
NOV 09	2.78	JAN 10	2.04	MAR 10	2.13	MAY 10	2.65	JUL 10	2.92	SEP 10	2.57
25	1.28	25	1.66	25	2.08	25	3.11	25	2.98	25	3.12
WATER YEAR 1992		HIGHEST	1.28	NOV 25, 1991		LOWEST	3.12	SEP 25, 1992			

D 120



GROUND-WATER LEVELS

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

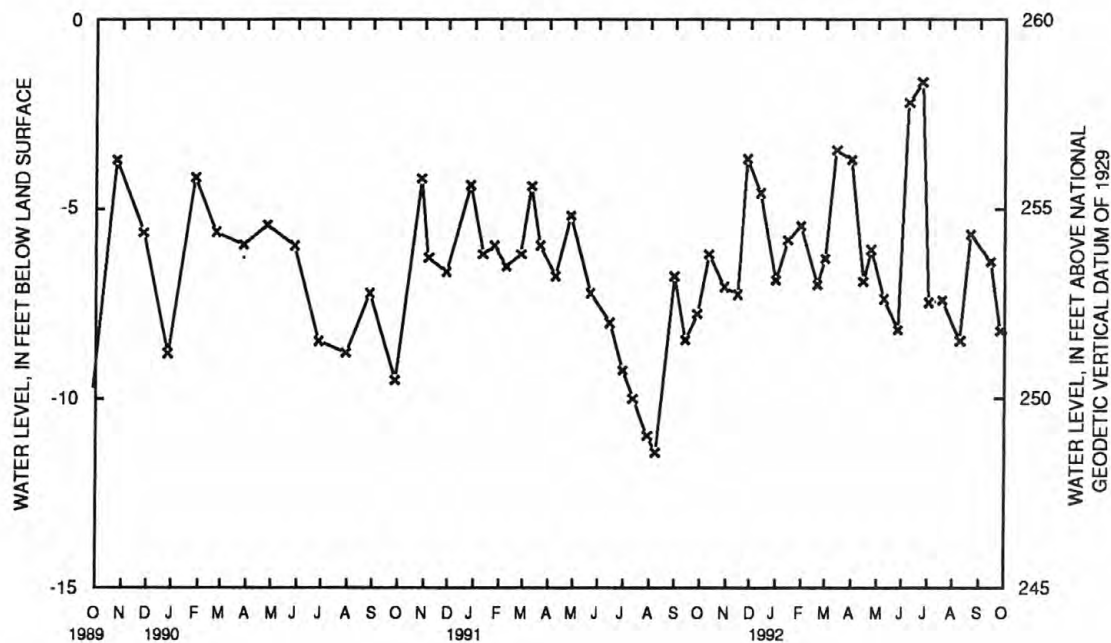
PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.67 ft below land-surface datum, June 24, 1992; lowest measured, 16.92 ft below land-surface datum, November 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	6.19	DEC 13	4.59	FEB 19	7.00	APR 14	6.90	JUN 08	2.20	AUG 09	8.47
30	7.04	31	6.88	28	6.30	24	6.06	24	1.67	22	5.66
NOV 15	7.24	JAN 14	5.81	MAR 13	3.45	MAY 09	7.36	JUL 03	7.46	SEP 14	6.39
27	3.68	30	5.44	31	3.70	27	8.17	18	7.41	26	8.21
WATER YEAR 1992		HIGHEST	1.67	JUN 24, 1992	LOWEST	8.47	AUG 09, 1992				

MF 1



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, screened 24.7 to 26.7 ft.

INSTRUMENTATION.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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. New measuring point: June 14, 1991, at land-surface datum.

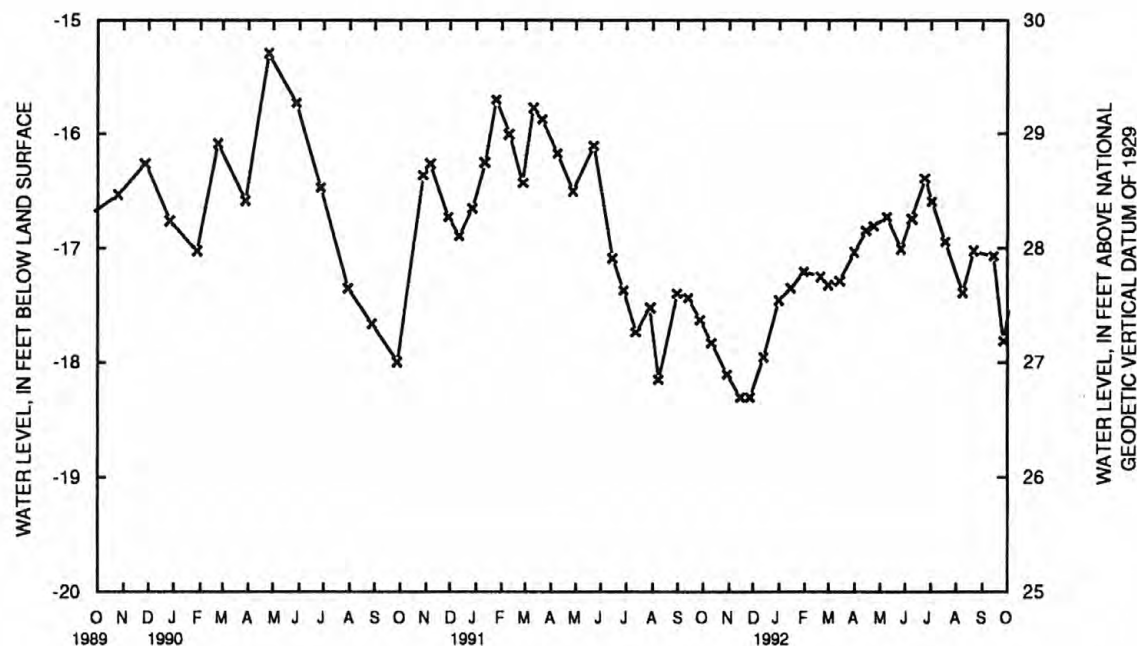
PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.56 ft below land-surface datum, June 14, 1982; lowest measured, 18.84 ft below land-surface datum, November 30, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 11	17.82	DEC 13	17.95	FEB 19	17.24	APR 14	16.84	JUN 08	16.74	AUG 08	17.38
30	18.10	31	17.45	28	17.31	24	16.80	24	16.39	22	17.02
NOV 15	18.30	JAN 14	17.34	MAR 13	17.28	MAY 09	16.73	JUL 03	16.59	SEP 14	17.06
27	18.30	30	17.20	31	17.03	27	17.00	18	16.94	26	17.80
WATER YEAR 1992		HIGHEST	16.39	JUN 24, 1992	LOWEST	18.30	NOV 15, 1991	NOV 27, 1991			

MA 314



GROUND-WATER LEVELS

233

MIDDLESEX COUNTY--Continued

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.--Prior to December 1990 measurements made monthly, since December 1990 measurements made biweekly 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.

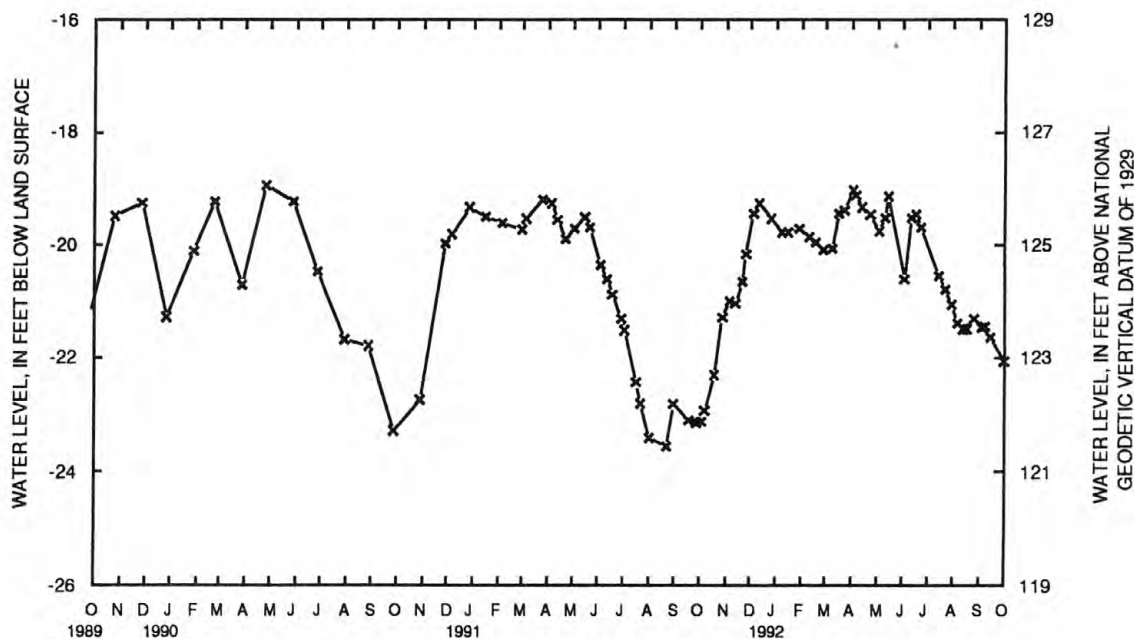
PERIOD OF RECORD.--April 1956 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 03	23.10	NOV 26	20.17	FEB 10	19.85	APR 06	19.10	JUN 11	19.51	AUG 13	21.48		
07	22.92	DEC 05	19.44	18	19.95	13	19.33	17	19.45	18	21.48		
18	22.29	11	19.25	27	20.09	23	19.46	23	19.68	26	21.30		
28	21.28	26	19.52	MAR 09	20.07	MAY 04	19.75	JUL 14	20.55	SEP 04	21.46		
NOV 06	20.99	JAN 08	19.77	16	19.43	11	19.51	22	20.78	08	21.43		
13	21.03	16	19.77	23	19.37	15	19.13	30	21.05	14	21.62		
21	20.65	29	19.70	APR 03	19.02	JUN 03	20.61	AUG 06	21.37				
WATER YEAR 1992		HIGHEST	19.02	APR 03, 1992	LOWEST	23.10	OCT 03, 1991						

MT 261



GROUND-WATER LEVELS

235

NEW HAVEN COUNTY--Continued

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.--Prior to January 1991 measurements made monthly, since January 1991 measurements made biweekly 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.

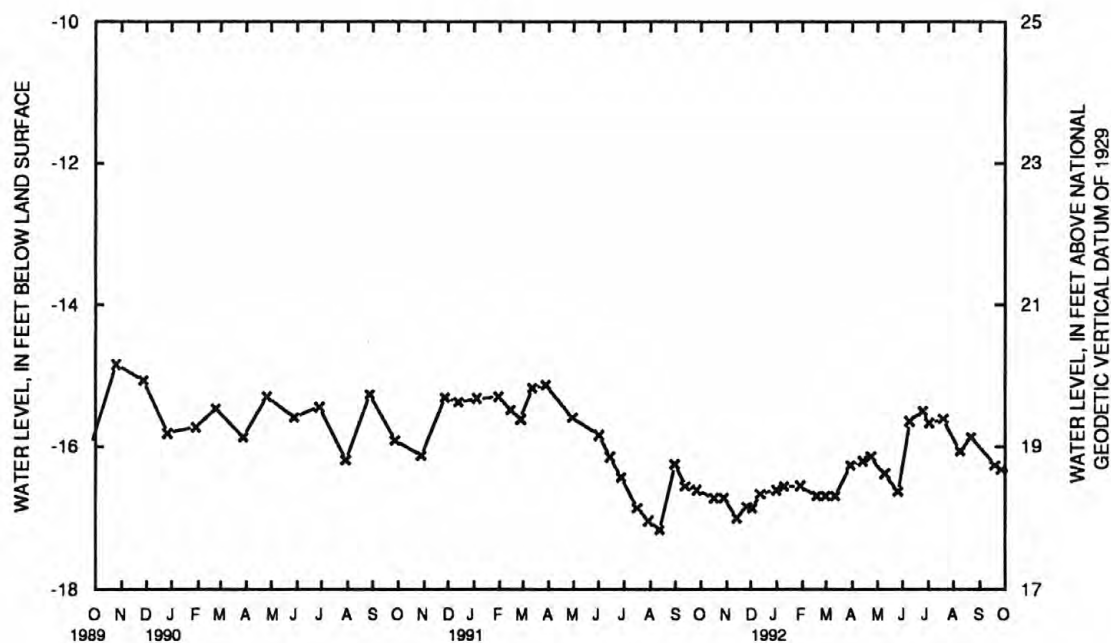
PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.56 ft below land-surface datum, June 28, 1982; lowest measured, 18.71 ft below land-surface datum, November 5, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 17	16.71	DEC 12	16.66	FEB 28	16.69	MAY 10	16.37	JUL 19	15.59
29	16.72	31	16.60	MAR 11	16.69	26	16.62	AUG 08	16.05
NOV 14	16.99	JAN 09	16.55	30	16.26	JUN 09	15.63	22	15.86
26	16.84	29	16.54	APR 13	16.19	25	15.48	SEP 19	16.25
DEC 02	16.85	FEB 18	16.68	23	16.13	JUL 03	15.65	27	16.32
WATER YEAR 1992		HIGHEST	15.48	JUN 25, 1992		LOWEST	16.99	NOV 14, 1991	

NHV 201



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 land 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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

REMARKS.--Levels affected by pumping

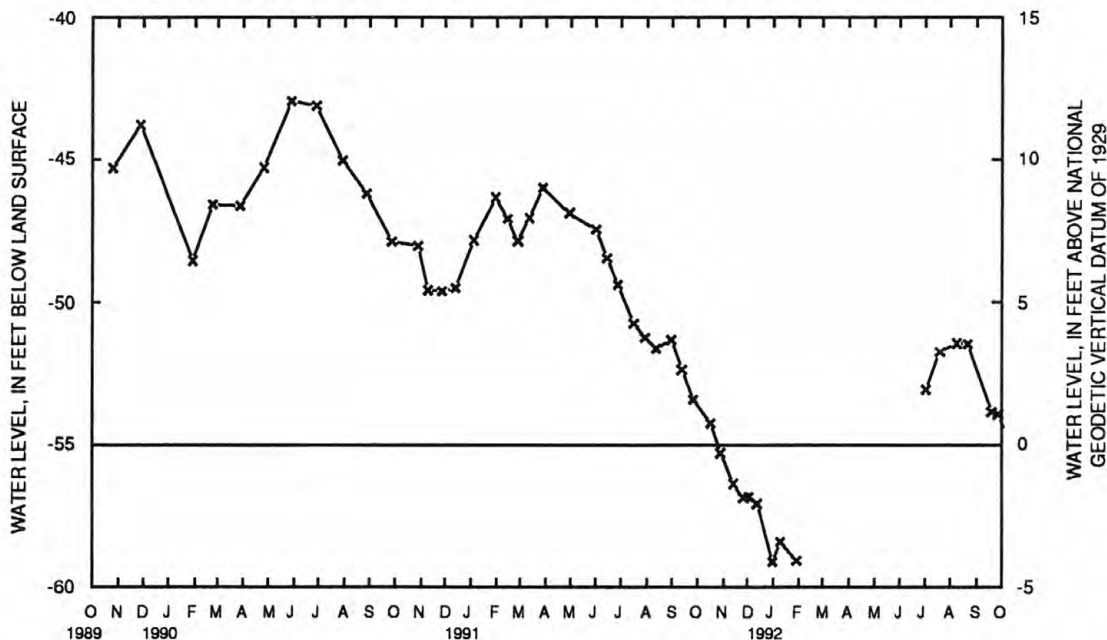
PERIOD OF RECORD.--October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.07 ft below land-surface datum, April 25, 1983; lowest 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, December 28, 1988; January 25, February 25, and March 27, 1989; February 18, 28, March 11, 30, April 13, 23, May 10, 26, and June 9, 25, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 17	54.20	DEC 12	57.08	FEB 28	DRY	MAY 10	DRY	JUL 19	51.72
29	55.27	31	59.10	MAR 11	DRY	26	DRY	AUG 08	51.42
NOV 14	56.39	JAN 09	58.40	30	DRY	JUN 09	DRY	22	51.43
26	56.88	29	59.06	APR 13	DRY	25	DRY	SEP 19	53.81
DEC 02	56.83	FEB 18	DRY	23	DRY	JUL 03	53.02	27	53.89
WATER YEAR 1992		HIGHEST	51.42	AUG 08, 1992	LOWEST	59.10	DEC 31, 1991		

NHV 202



GROUND-WATER LEVELS

237

NEW HAVEN COUNTY--Continued

412954073125201. Local number, SB 30.

LOCATION.--Lat 41°29'54", long 73°12'52", Hydrologic Unit 01100005, located about 75 ft west of the intersection of Rte 6 and Rte 67, 40 ft south of Rte 67, Southbury; Southbury quadrangle.

Owner: State of Connecticut.

AQUIFER.--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 27.5 ft, PVC casing, screened 22.5 to 27.5 ft.

INSTRUMENTATION.--Measurements made biweekly by a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 252 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2 ft above land-surface datum.

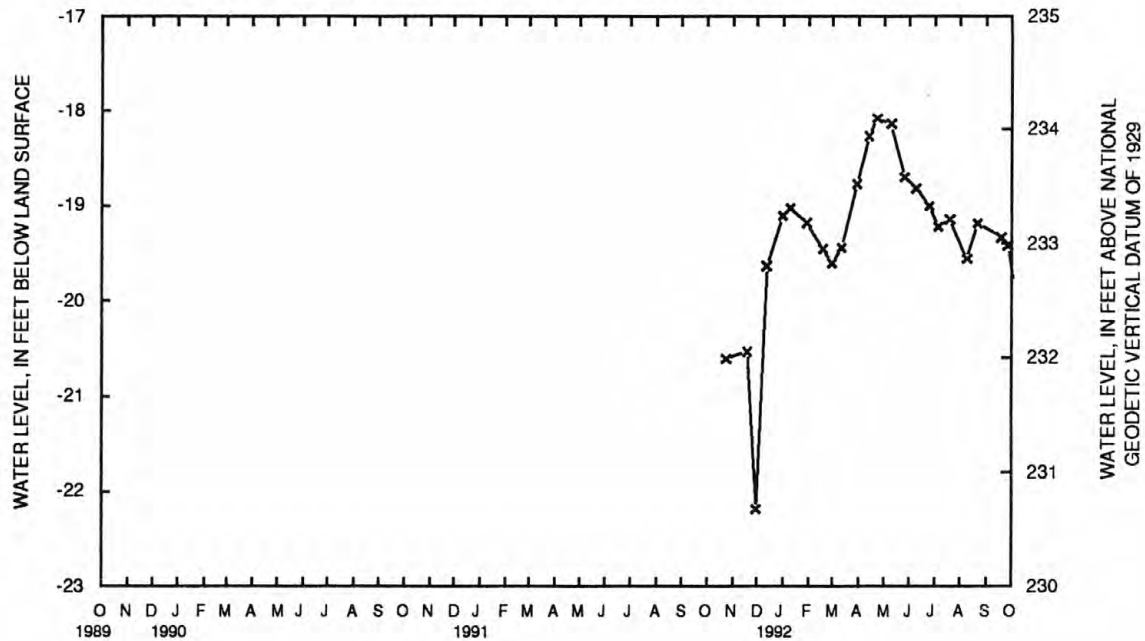
PERIOD OF RECORD.-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.08 ft below land-surface datum, April 23, 1992; lowest measured, 22.19 ft below land-surface datum, .

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 24	20.61	DEC 31	19.11	FEB 28	19.45	APR 23	18.08	JUN 25	19.00	AUG 22	19.19
NOV 19	20.53	JAN 09	19.03	MAR 11	19.44	MAY 10	18.14	JUL 05	19.22	SEP 19	19.33
29	22.19	29	19.18	30	18.77	26	18.70	19	19.14	27	19.42
DEC 12	19.63	FEB 18	19.45	APR 13	18.27	JUN 09	18.82	AUG 09	19.56		
WATER YEAR 1992		HIGHEST	18.08	APR 23, 1992	LOWEST	22.19	NOV 29, 1991				

SB 30



GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

413002073131001. Local number, **SB 39**.

LOCATION--Lat 41°30'02", long 73°13'10", Hydrologic Unit 01100005, in George Bennett Town Park, 20 ft north of parking area, behind fence, Southbury; Woodbury quadrangle.

Owner: Town of Southbury.

AQUIFER--Stratified drift of Pleistocene age (sand and gravel).

WELL CHARACTERISTICS--Augered, unused, water-table well, diameter 2 in, depth 26 ft, PVC casing, screened 21 to 26 ft.

INSTRUMENTATION--Measurements made biweekly by 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 casing, 1.63 ft above land-surface datum.

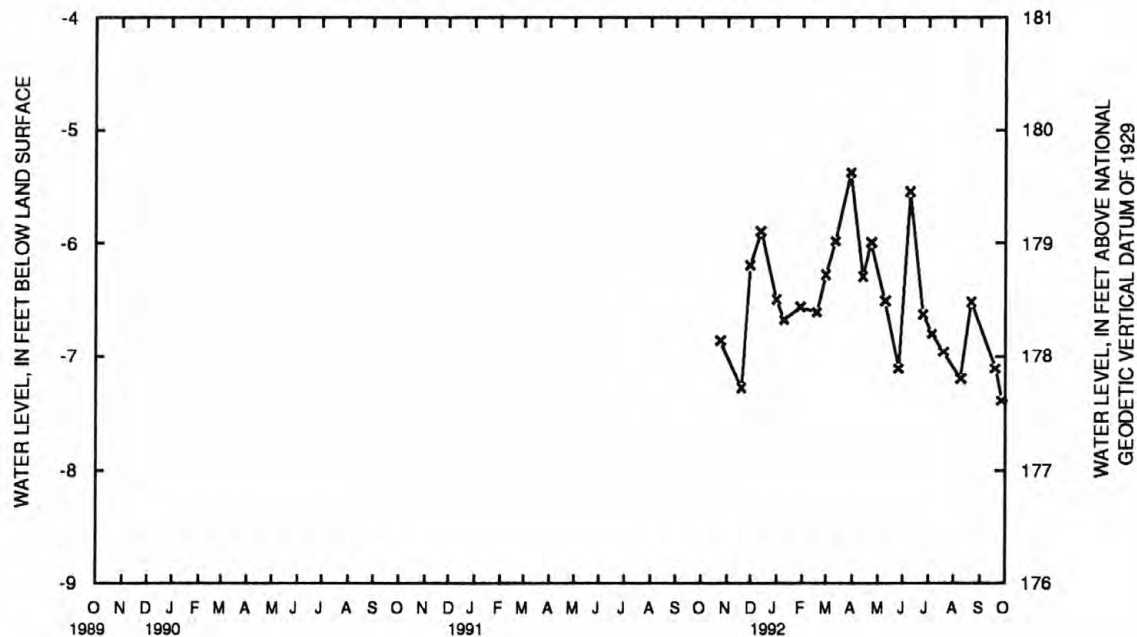
PERIOD OF RECORD-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level measured, 5.37 ft below land-surface datum, March 30, 1992; lowest measured, 7.38 ft below land-surface datum, September 27, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 24	6.85	DEC 31	6.49	FEB 28	6.27	APR 23	5.99	JUN 25	6.62	AUG 22	6.51
NOV 19	7.27	JAN 09	6.67	MAR 11	5.98	MAY 10	6.50	JUL 05	6.79	SEP 19	7.10
29	6.19	29	6.55	30	5.37	26	7.10	19	6.95	27	7.38
DEC 12	5.89	FEB 18	6.60	APR 13	6.29	JUN 09	5.54	AUG 09	7.19		
WATER YEAR 1992		HIGHEST	5.37	MAR 30, 1992	LOWEST	7.38	SEP 27, 1992				

SB 39



GROUND-WATER LEVELS

239

NEW HAVEN COUNTY--Continued

412935073104601. Local number, SB 40.

LOCATION.--Lat 41°29'35", long 73°10'46", Hydrologic Unit 01100005, about 30 ft north of Bucks Hill Road, at entrance of Hidden Pond Town Park, Southbury; Southbury quadrangle.

Owner: Town of Southbury.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 11.5 ft, PVC casing, screened 6.5 to 11.5 ft.

INSTRUMENTATION.--Measurements made biweekly by a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 685 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.53 ft above land-surface datum.

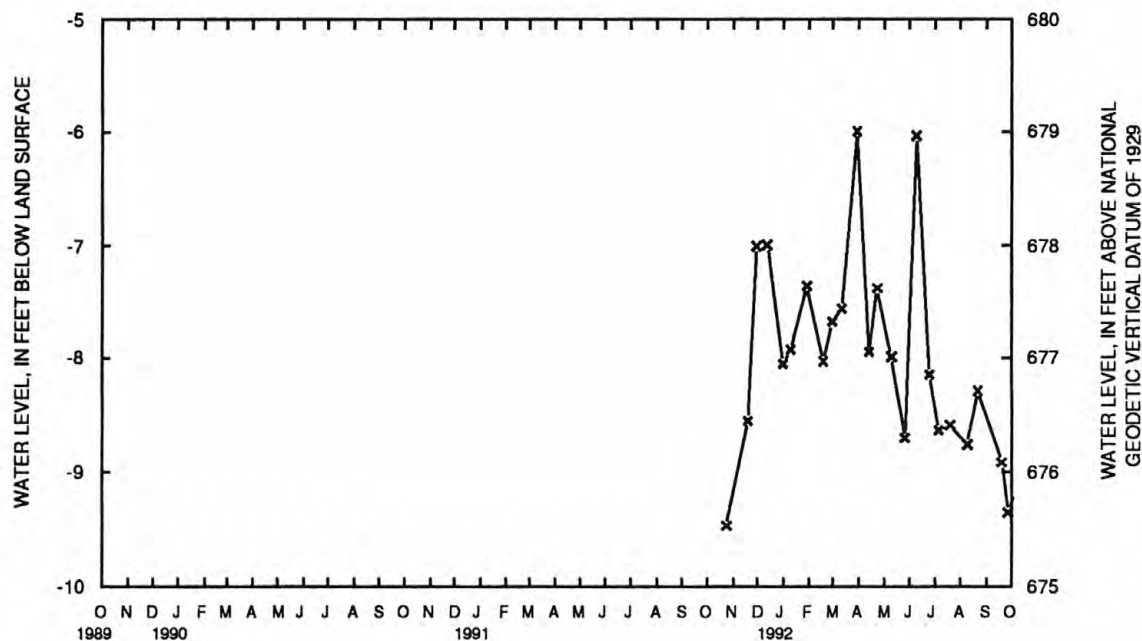
PERIOD OF RECORD.-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.99 ft below land-surface datum, March 30, 1992; lowest measured, 9.47 ft below land-surface datum, October 24, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 24	9.47	DEC 31	8.04	FEB 28	7.67	APR 23	7.37	JUN 25	8.14	AUG 22	8.28
NOV 19	8.54	JAN 09	7.92	MAR 11	7.55	MAY 10	7.98	JUL 05	8.63	SEP 19	8.91
29	7.00	29	7.35	30	5.99	26	8.70	19	8.58	27	9.35
DEC 12	6.99	FEB 18	8.02	APR 13	7.94	JUN 09	6.03	AUG 09	8.75		
WATER YEAR 1992		HIGHEST	5.99	MAR 30, 1992		LOWEST	9.47	OCT 24, 1991			

SB 40



GROUND-WATER LEVELS

NEW HAVEN COUNTY--Continued

412935073122701. Local number, **SB 41**.

LOCATION--Lat 41°29'35", long 73°12'27", Hydrologic Unit 01100005, west end of Hinman Lane, at entrance to Hinman Park Conservation Area, 20 ft south of curb, Southbury; Southbury quadrangle. Owner: Town of Southbury.

AQUIFER--Glacial till of Pleistocene age.

WELL CHARACTERISTICS--Augered, unused, water-table well, diameter 2 in, depth 110 ft, PVC casing, well screened 105 to 110.

INSTRUMENTATION--Measurements made biweekly by a chalked tape by U.S.G.S. personnel.

DATUM--Elevation of land-surface datum is 385 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.35 ft above land-surface datum.

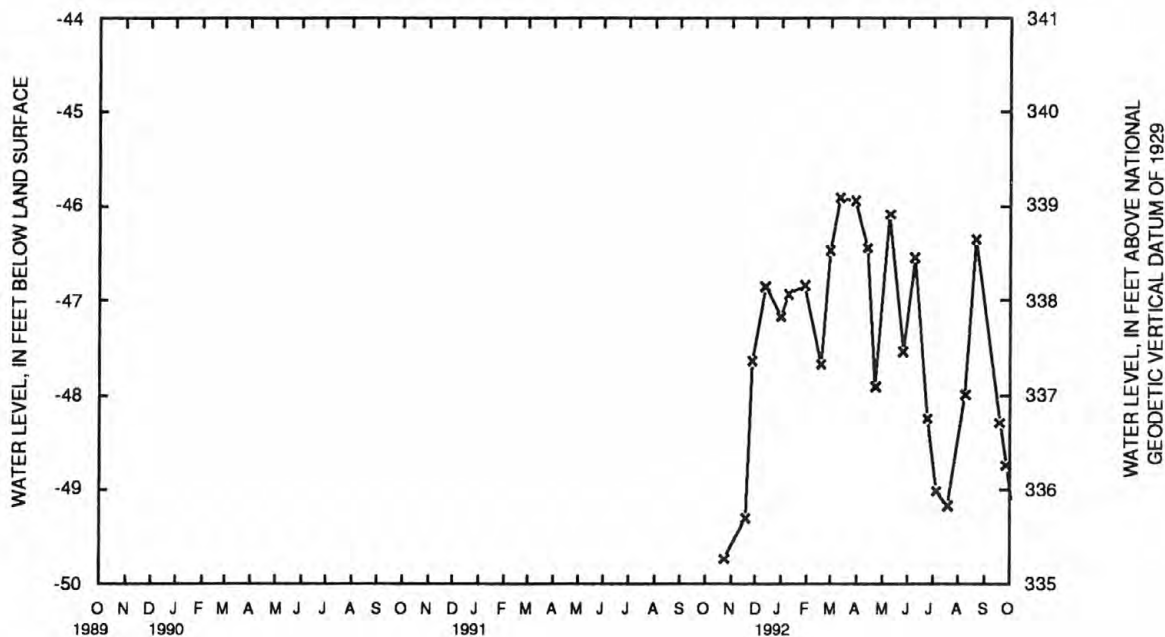
PERIOD OF RECORD-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD--Highest water level measured, 45.91 ft below land-surface datum, March 11, 1992; lowest measured, 49.73 ft below land-surface datum, October 24, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL
OCT 24 49.73	DEC 31 47.17	FEB 28 46.47	APR 23 47.90	JUN 25 48.24	AUG 22 46.35
NOV 19 49.30	JAN 09 46.93	MAR 11 45.91	MAY 10 46.08	JUL 05 49.01	SEP 19 48.29
27 47.63	29 46.84	30 45.94	26 47.53	19 49.17	27 48.75
DEC 12 46.85	FEB 18 47.66	APR 13 46.44	JUN 09 46.54	AUG 09 47.99	
WATER YEAR 1992	HIGHEST 45.91	MAR 11, 1992	LOWEST 49.73	OCT 24, 1991	

SB 41



GROUND-WATER LEVELS

241

NEW HAVEN COUNTY--Continued

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

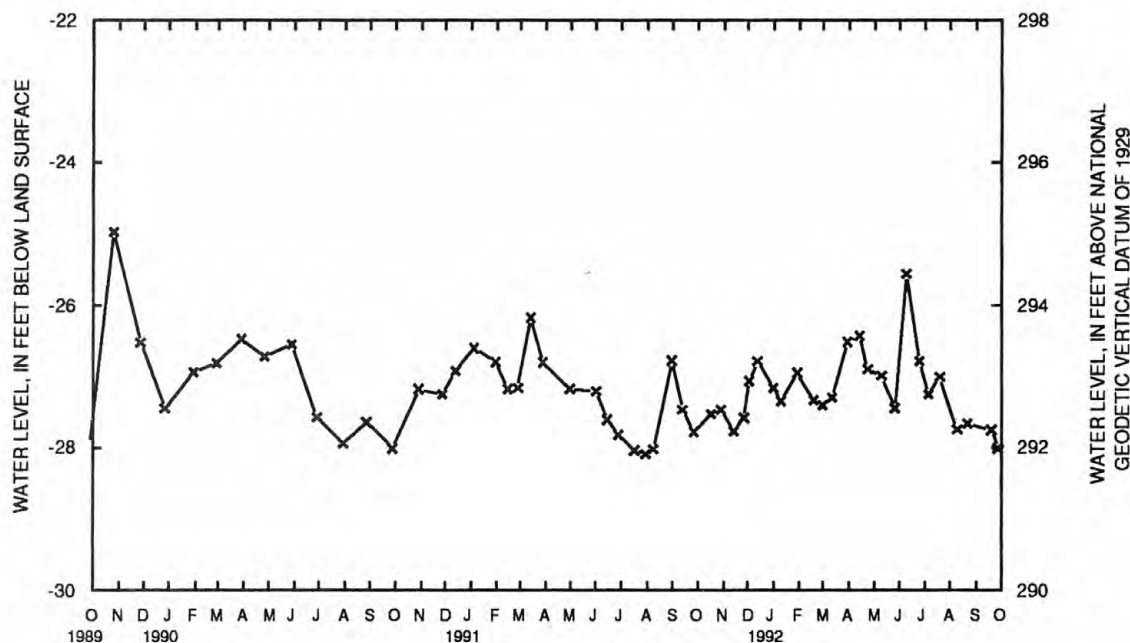
PERIOD OF RECORD.--February 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.82 ft below land-surface datum, June 4, 1984; lowest measured, 29.68 ft below land-surface datum, September 27, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 17	27.52	DEC 12	26.78	FEB 28	27.39	MAY 10	26.98	JUL 19	26.99
29	27.45	31	27.15	MAR 11	27.28	26	27.43	AUG 09	27.73
NOV 14	27.76	JAN 09	27.33	30	26.51	JUN 09	25.55	22	27.65
26	27.57	29	26.94	APR 13	26.42	25	26.78	SEP 19	27.74
DEC 02	27.05	FEB 18	27.32	23	26.89	JUL 05	27.24	27	28.00
WATER YEAR 1992		HIGHEST	25.55	JUN 09, 1992		LOWEST	28.00	SEP 27, 1992	

WB 93



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.--Prior to December 1990 measurements made monthly, since December 1990 measurements made biweekly 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.

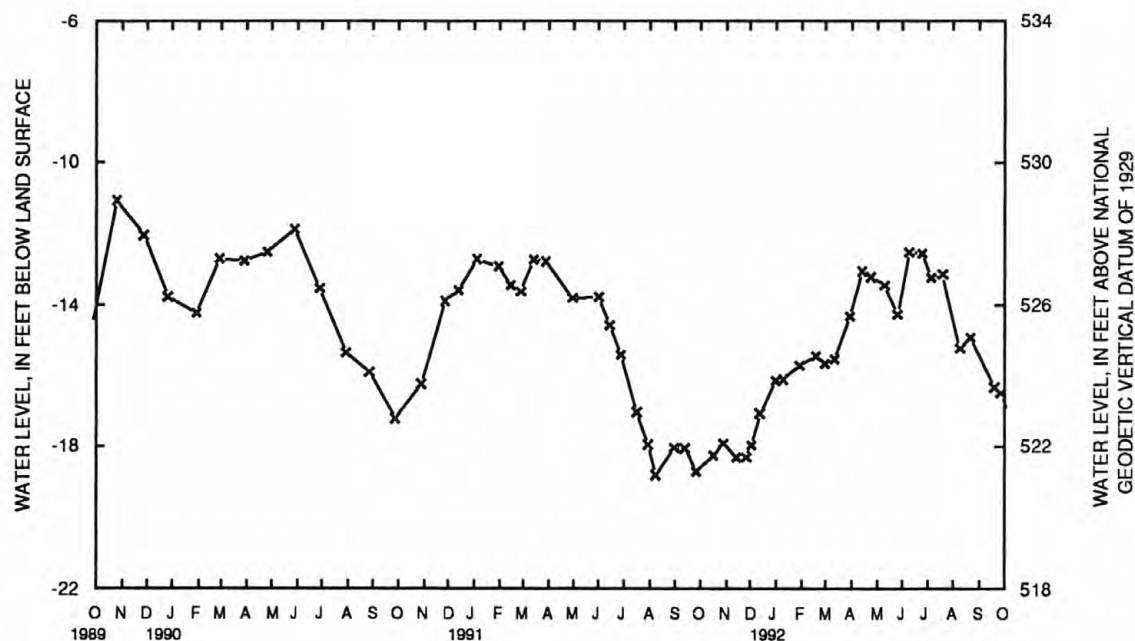
PERIOD OF RECORD.--February 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.49 ft below land-surface datum, January 10, 1946; lowest measured, 21.76 ft below land-surface datum, October 26, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 17	18.22	DEC 12	17.05	FEB 28	15.64	MAY 10	13.43	JUL 19	13.13
29	17.90	31	16.14	MAR 11	15.53	26	14.26	AUG 09	15.21
NOV 14	18.30	JAN 09	16.09	30	14.32	JUN 09	12.50	22	14.90
26	18.30	29	15.70	APR 13	13.05	25	12.53	SEP 19	16.31
DEC 02	17.96	FEB 18	15.43	24	13.20	JUL 05	13.21	27	16.48
WATER YEAR 1992		HIGHEST	12.50 JUN 09, 1992	LOWEST	18.30 NOV 14, 1991	NOV 26, 1991			

WB 198



GROUND-WATER LEVELS

243

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.

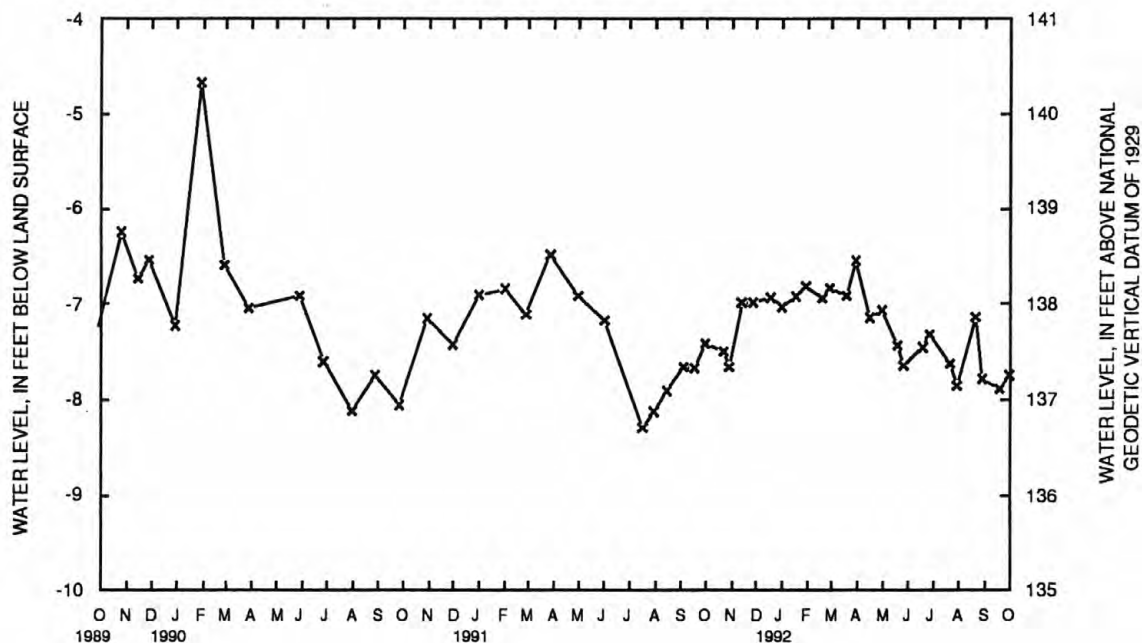
PERIOD OF RECORD.--January 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.66 ft below land-surface datum, January 30, 1990; lowest measured, 8.52 ft below land-surface datum, September 24, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 22	7.49	DEC 18	6.93	FEB 18	6.94	APR 16	7.14	JUN 18	7.45	AUG 20	7.13
29	7.65	31	7.03	27	6.83	30	7.06	26	7.32	26	7.78
NOV 13	6.98	JAN 17	6.92	MAR 18	6.91	MAY 19	7.43	JUL 21	7.62	SEP 18	7.88
27	6.98	29	6.81	30	6.54	26	7.64	29	7.85	30	7.74
WATER YEAR 1992		HIGHEST	6.54	MAR 30, 1992	LOWEST	7.88	SEP 18, 1992				

CO 335



GROUND-WATER LEVELS

NEW LONDON COUNTY--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.

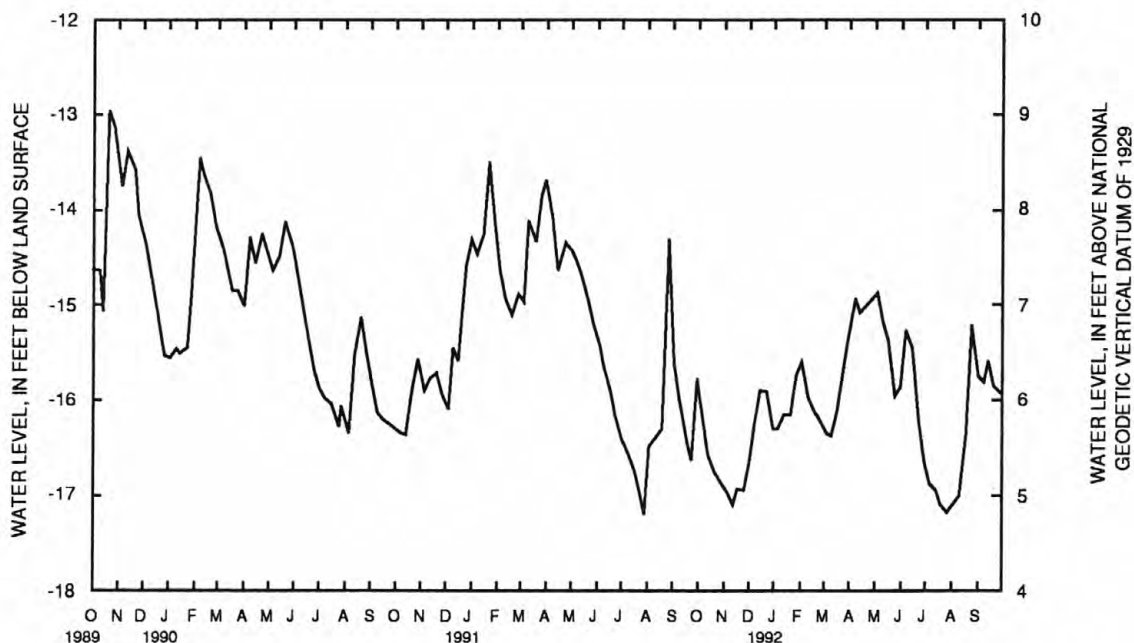
PERIOD OF RECORD.--June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.35 ft below land-surface datum, June 7, 1982; lowest measured, 17.97 ft below land-surface datum, October 6, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 07	16.25	DEC 07	16.30	FEB 10	15.96	APR 12	15.07	JUN 29	16.63	SEP 08	15.80						
12	16.56	15	15.90	18	16.13	MAY 03	14.87	JUL 06	16.87	14	15.58						
20	16.75	22	15.91	23	16.17	10	15.17	14	16.94	20	15.85						
28	16.86	31	16.30	MAR 04	16.35	17	15.38	19	17.10	29	15.93						
NOV 05	16.97	JAN 05	16.30	09	16.37	25	15.95	27	17.18								
12	17.09	12	16.15	16	16.14	31	15.86	AUG 10	17.00								
17	16.93	20	16.15	24	15.67	JUN 07	15.26	18	16.35								
25	16.95	27	15.73	29	15.38	14	15.45	24	15.20								
DEC 02	16.65	FEB 03	15.60	APR 07	14.93	22	16.22	SEP 01	15.75								
WATER YEAR 1992		HIGHEST	14.87	MAY 03, 1992	LOWEST	17.18	JUL 27, 1992										

GT 19



GROUND-WATER LEVELS

245

NEW LONDON COUNTY--Continued

412931071514201. Local number, NSN 77.

LOCATION.--Lat 41°29'31", long 71°51'42", Hydrologic Unit 01090005, about 30 ft north of Wyassup Lake Road, 0.1 miles east of entrance to cemetery, North Stonington; Ashaway quadrangle.

Owner: Connecticut Department of Environmental Protection.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 43 ft, PVC casing, screened 38 to 43 ft.

INSTRUMENTATION.--Measurements made biweekly by a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 520 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.

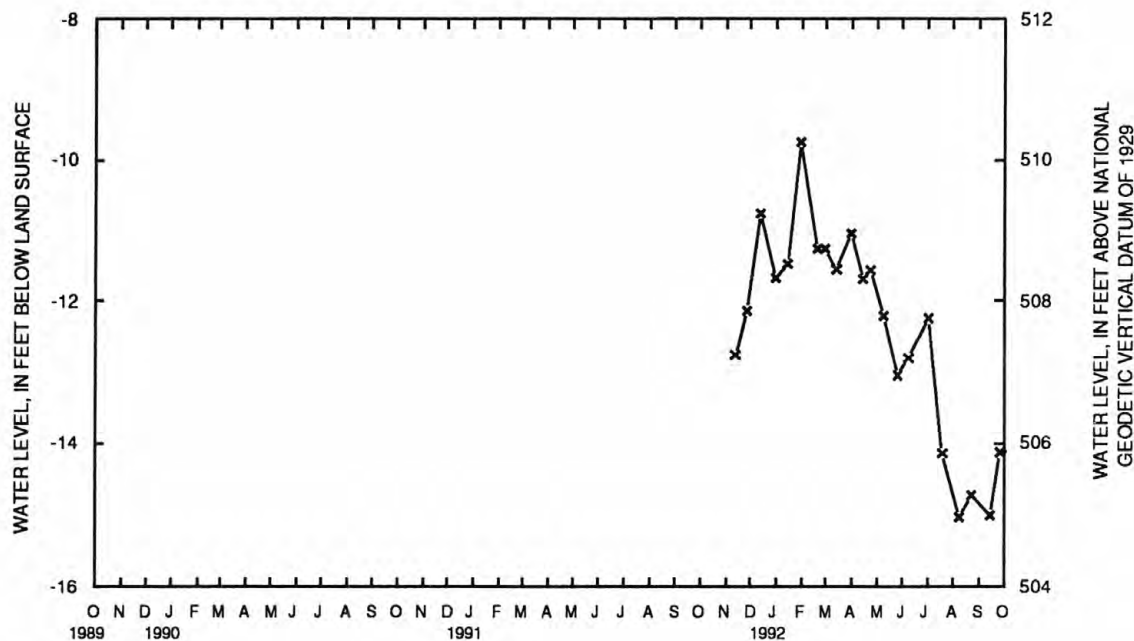
PERIOD OF RECORD.-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.73 ft below land-surface datum, January 30, 1992; lowest measured, 15.02 ft below land-surface datum, August 8, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 25	12.98	DEC 31	11.67	FEB 28	11.26	APR 24	11.56	JUL 03	12.24	SEP 14	14.99
NOV 13	12.75	JAN 14	11.47	MAR 13	11.55	MAY 09	12.21	19	14.13	26	14.12
27	12.13	30	9.73	31	11.04	27	13.03	AUG 08	15.02		
DEC 13	10.75	FEB 19	11.25	APR 14	11.69	JUN 08	12.79	23	14.72		
WATER YEAR 1992		HIGHEST	9.73	JAN 30, 1992	LOWEST	15.02	AUG 08, 1992				

NSN 77



GROUND-WATER LEVELS
NEW LONDON COUNTY--Continued

412746071510601. Local number, **NSN 78.**

LOCATION.--Lat 41°27'46", long 71°51'06", Hydrologic Unit 01090005, 5 ft north of Wyassup Lake Road, 90 ft west of Hetchel Swamp Brook, North Stonington; Ashaway quadrangle. Owner: Connecticut Department of Environmental Protection.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered, unused, water-table well, diameter 2 in, depth 10 ft, PVC casing, screened 5 to 10 ft.

INSTRUMENTATION.--Measurements made biweekly by a chalked tape by U.S.G.S. personnel.

DATUM.--Elevation of land-surface datum is 325 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 0.70 ft above land-surface datum.

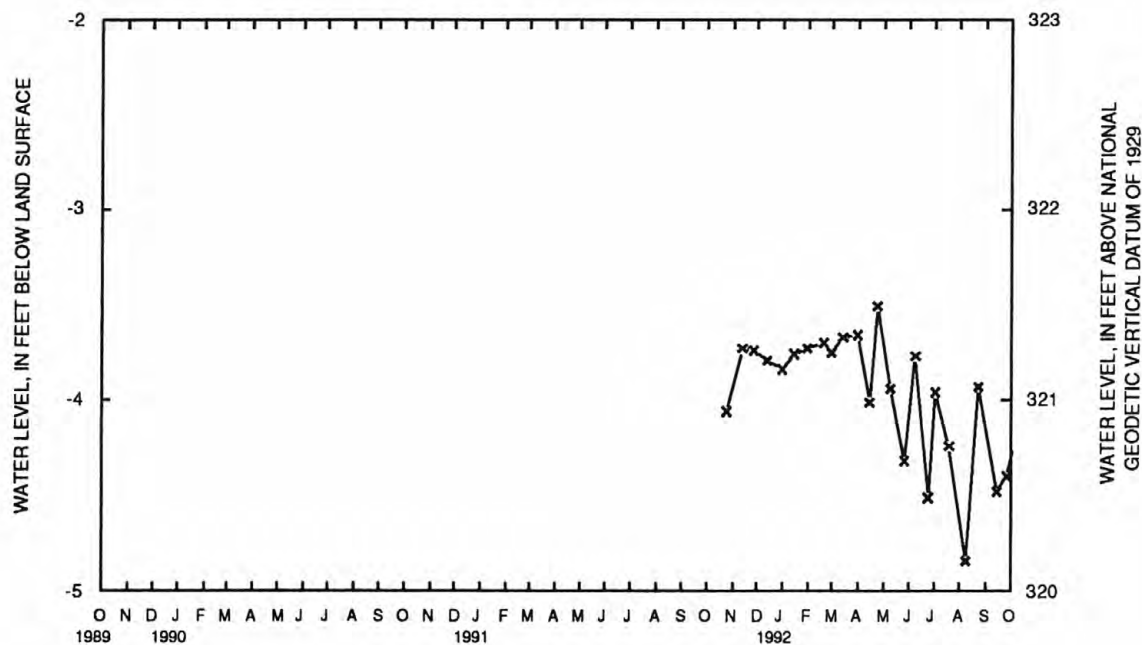
PERIOD OF RECORD.-- October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.51 ft below land-surface datum, April 24, 1992; lowest measured, 4.84 ft below land-surface datum, August 8, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 25	4.06	DEC 31	3.84	FEB 28	3.75	APR 24	3.51	JUN 24	4.51	AUG 23	3.93
NOV 13	3.73	JAN 14	3.76	MAR 13	3.67	MAY 09	3.94	JUL 03	3.96	SEP 14	4.48
27	3.74	30	3.73	31	3.66	27	4.32	19	4.24	26	4.40
DEC 13	3.79	FEB 19	3.70	APR 14	4.01	JUN 08	3.77	AUG 08	4.84		
WATER YEAR 1992		HIGHEST	3.51	APR 24, 1992		LOWEST	4.84	AUG 08, 1992			

NSN 78



GROUND-WATER LEVELS

247

NEW LONDON COUNTY--Continued

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

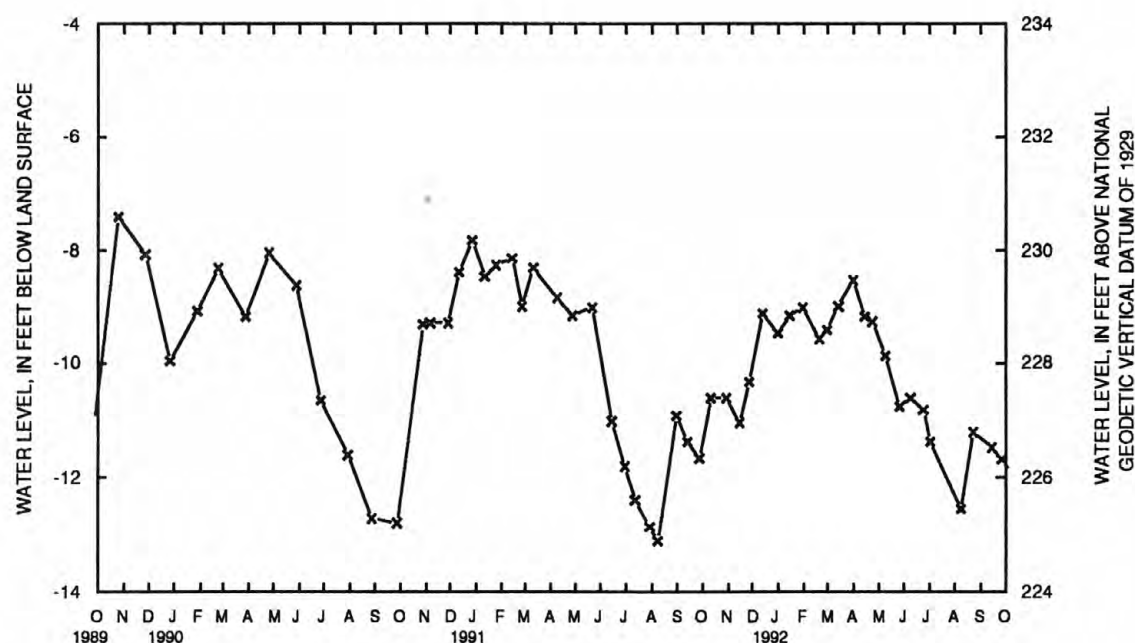
PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.88 ft below land-surface datum, April 26, 1983; lowest measured, 13.76 ft below land-surface datum, October 30, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL	WATER LEVEL
OCT 11 10.60	DEC 13 9.10	FEB 19 9.56	APR 14 9.17	JUN 08 10.60	AUG 23 11.21
30 10.60	31 9.45	28 9.39	24 9.25	24 10.82	SEP 14 11.48
NOV 15 11.04	JAN 14 9.14	MAR 13 8.98	MAY 09 9.85	JUL 03 11.37	26 11.68
27 10.32	30 9.00	31 8.52	27 10.76	AUG 08 12.55	
WATER YEAR 1992	HIGHEST 8.52 MAR 31, 1992	LOWEST 12.55 AUG 08, 1992			

SM 7



GROUND-WATER LEVELS

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.--Prior to July 1984 measurements made monthly, since July 1984 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.

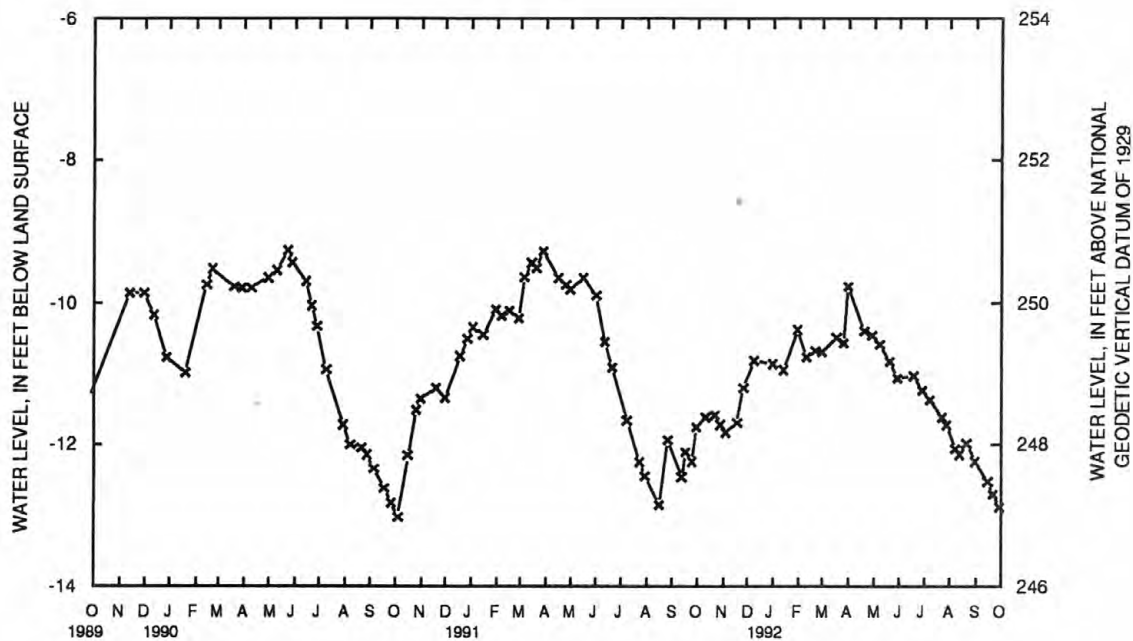
PERIOD OF RECORD.--May 1958 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	11.61	DEC 09	10.81	FEB 28	10.69	MAY 08	10.58	JUL 22	11.61	SEP 15	12.52
22	11.58	31	10.85	MAR 17	10.48	20	10.82	28	11.72	21	12.70
29	11.71	JAN 13	10.94	26	10.56	29	11.05	AUG 07	12.06	29	12.88
NOV 04	11.82	30	10.37	31	9.76	JUN 18	11.02	12	12.14		
18	11.69	FEB 10	10.76	APR 20	10.39	29	11.22	21	11.98		
26	11.19	21	10.67	29	10.45	JUL 08	11.36	31	12.23		
WATER YEAR 1992		HIGHEST	9.76 MAR 31, 1992	LOWEST	12.88 SEP 29, 1992						

MS 19



GROUND-WATER LEVELS

249

TOLLAND COUNTY--Continued

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, slotted 20 to 22 ft.

INSTRUMENTATION.--Prior to May 1984 measurements made monthly, since May 1984 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.

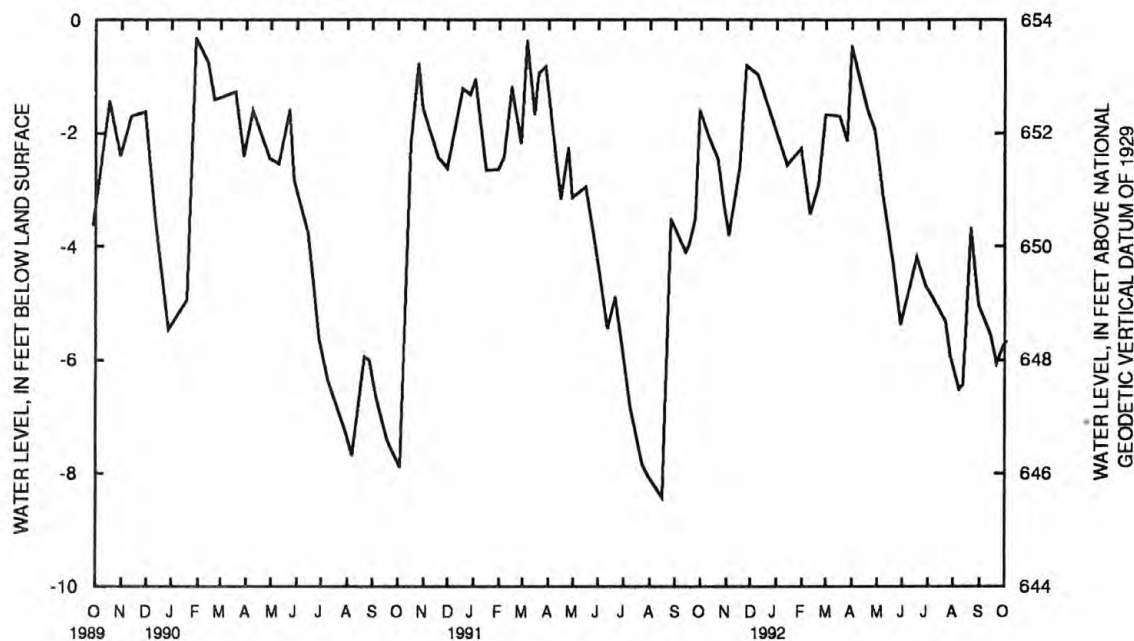
PERIOD OF RECORD.--June 1982 to current year.

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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL
OCT 11	2.06	DEC 09	.96	FEB 28	1.66	MAY 08	3.06	JUL 22	5.31	SEP 15	5.54
22	2.45	31	1.95	MAR 17	1.69	20	4.28	28	5.89	21	6.04
29	3.23	JAN 13	2.55	26	2.12	29	5.35	AUG 07	6.49	29	5.75
NOV 04	3.80	30	2.26	31	.45	JUN 18	4.18	12	6.42		
18	2.56	FEB 10	3.42	APR 20	1.56	29	4.69	21	3.66		
26	.79	21	2.90	29	1.95	JUL 08	4.92	31	5.01		
WATER YEAR 1992		HIGHEST	.45 MAR 31, 1992	LOWEST		6.49	AUG 07, 1992				

MS 44



GROUND-WATER LEVELS

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.--Prior to November 1990 measurements made monthly, since November 1990 measurements made biweekly 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.

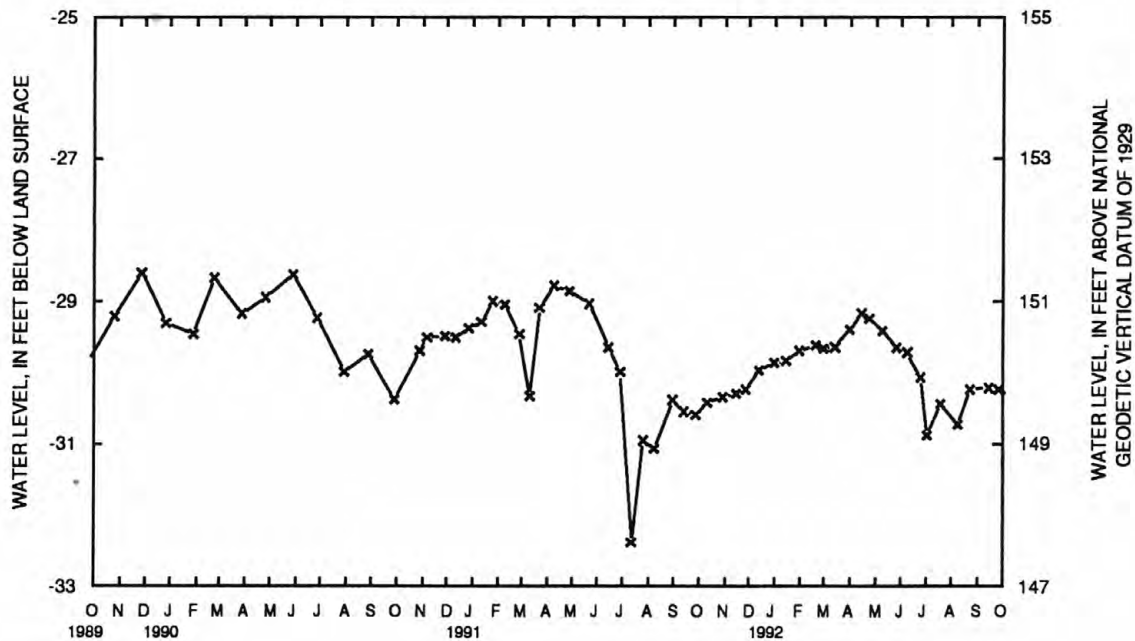
PERIOD OF RECORD.--October 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.19 ft below land-surface datum, April 26, 1983; lowest measured, 33.21 ft below land-surface datum, February 10, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL		WATER LEVEL	
OCT 11	30.41	DEC 13	29.96	FEB 19	29.61	APR 14	29.17	JUN 08	29.71	AUG 08	30.72
30	30.33	31	29.85	28	29.65	24	29.24	25	30.06	23	30.22
NOV 15	30.29	JAN 14	29.82	MAR 13	29.63	MAY 09	29.41	JUL 03	30.87	SEP 14	30.20
27	30.22	30	29.69	31	29.39	27	29.64	18	30.42	26	30.22
WATER YEAR 1992		HIGHEST	29.17	APR 14, 1992	LOWEST	30.87	JUL 03, 1992				

PL 1



251

414243072040501. Local Number, SC 19.

AQUIFER.-- Till of Pleistocene age.

INSTRUMENTATION.--Prior to October 28, 1988 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.

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 measured, 11.55 ft below land-surface datum, September 16, 1987.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	6.38	3.41	3.47	3.41	2.89	1.94	3.24	4.82	5.58	6.40	6.04
2	---	6.44	3.46	3.88	3.42	3.29	2.17	3.23	4.54	5.83	6.40	6.25
3	---	6.49	2.27	4.01	3.57	3.40	2.36	3.16	4.58	6.02	6.56	6.27
4	---	6.63	2.14	3.03	3.98	3.41	2.67	3.32	4.86	6.20	6.77	5.70
5	---	6.67	2.37	2.72	4.16	3.40	2.86	3.76	4.48	6.16	6.94	5.70
6	---	6.71	2.67	2.72	4.36	3.40	3.14	4.05	2.22	6.14	7.11	5.79
7	---	6.83	2.76	2.78	4.46	2.34	3.40	4.14	2.27	6.14	7.18	5.93
8	---	6.87	2.73	2.96	4.54	2.31	3.42	4.25	2.64	6.20	7.19	6.06
9	---	7.03	2.72	3.19	4.58	2.37	3.51	4.08	3.03	6.37	6.68	5.98
10	---	7.05	2.37	3.15	4.83	2.53	3.73	4.09	3.30	6.53	6.47	5.98
11	---	5.74	2.40	3.15	4.86	1.36	3.78	4.22	3.78	6.63	6.04	5.79
12	---	4.81	2.58	3.41	4.91	1.51	3.76	4.33	4.12	6.84	5.51	5.79
13	---	4.58	2.21	3.61	5.10	1.86	3.72	4.47	4.32	6.33	5.51	5.97
14	---	4.58	1.92	2.41	5.11	2.15	3.73	4.38	4.57	6.29	5.68	6.17
15	---	4.64	1.97	2.41	5.06	2.38	3.94	4.50	4.83	5.87	5.68	6.36
16	---	4.64	2.35	2.67	4.20	2.72	4.03	4.70	5.06	4.45	4.95	6.53
17	---	4.83	2.73	3.04	4.20	3.05	2.57	4.76	5.22	4.47	3.89	6.70
18	---	4.98	2.94	3.38	3.95	3.21	2.41	4.85	5.43	4.79	3.03	6.85
19	---	5.02	3.33	3.48	3.53	3.37	2.28	4.95	5.52	5.01	3.03	6.92
20	---	5.09	3.45	3.86	3.43	3.39	2.39	5.10	5.69	5.24	3.38	7.10
21	---	5.15	3.44	4.03	3.41	3.39	2.51	5.21	5.84	5.44	3.93	7.19
22	---	3.40	3.44	4.32	3.45	3.38	2.48	5.31	5.92	5.72	4.19	7.28
23	---	2.77	3.45	2.30	3.43	3.37	2.47	5.45	6.08	5.89	4.44	7.31
24	5.92	2.41	3.47	1.92	3.42	3.40	2.64	5.61	5.98	5.94	4.73	7.31
25	5.92	2.44	3.50	1.96	3.39	3.40	2.26	5.83	5.52	5.94	4.84	7.32
26	5.97	2.78	4.03	2.32	2.45	2.31	2.27	5.89	5.54	6.10	5.01	7.37
27	6.05	3.07	4.24	2.74	2.45	1.36	2.46	5.95	4.96	6.21	5.20	7.19
28	6.08	3.21	4.38	3.18	2.53	1.45	2.69	6.10	4.88	6.41	5.36	7.19
29	6.26	3.35	3.65	3.38	2.52	1.74	3.05	6.24	5.01	6.60	5.50	7.19
30	6.24	3.41	3.44	3.39	---	2.14	3.15	6.36	5.30	6.78	5.72	7.32
31	6.28	---	3.43	3.39	---	1.78	---	6.47	---	6.81	5.80	---
MIN	5.92	2.41	1.92	1.92	2.45	1.36	1.94	3.16	2.22	4.45	3.03	5.70
WATER YEAR 1992		HIGHEST 1.36 MAR 27, 1992				LOWEST 7.47		SEP 26, 1992				

WINDHAM COUNTY--Continued

414237072034401. Local Number, SC 20.

LOCATION-- Lat 41°42'37", long 72°03'44", Hydrologic unit 01100002, hillside site at Pudding Hill Wildlife Management area, off CT Rt. 97 along field road on south side about 2300 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 19 ft, PVC casing, slotted 16 to 19 ft.

INSTRUMENTATION.--Prior to November 8, 1988 measurements made monthly with a chalked tape by State Natural Resources Center personnel. ADR water-level recorder with 60-minute punch installed November 8, 1988.

DATUM.-- Elevation of land-surface datum is 350 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of PVC coupling 2.12 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 0.50 ft above land-surface datum, April 9, 1987;
lowest measured, 11.74 ft below land-surface datum, November 13, 1987.

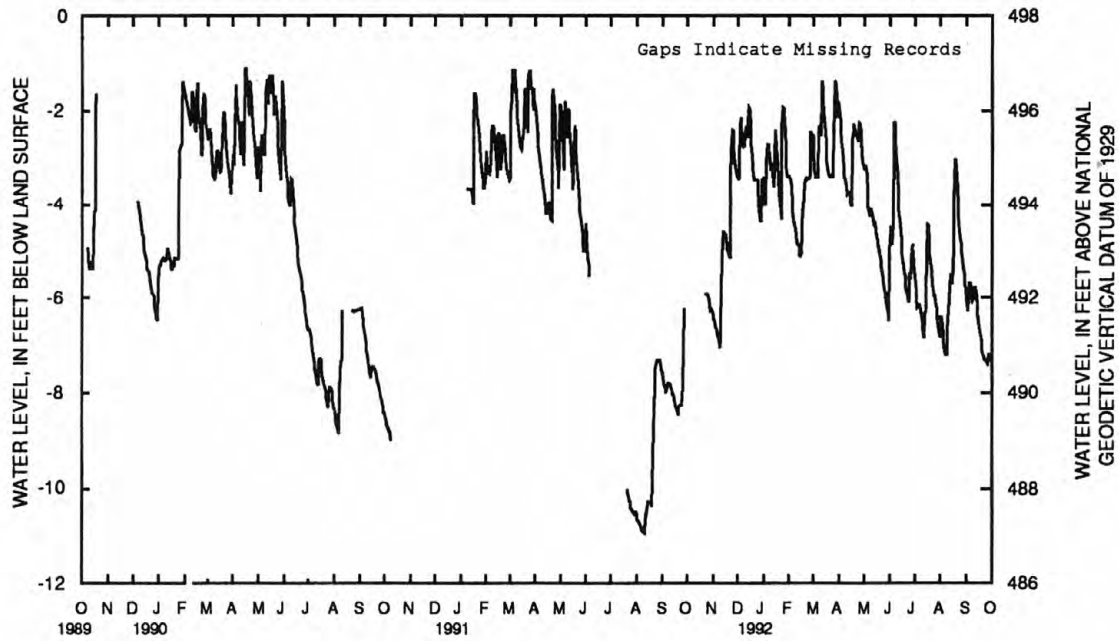
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.90	9.76	7.34	---	---	---	---	4.17	---	---	8.25	9.06
2	9.90	9.76	7.33	---	---	---	---	4.19	---	---	8.28	9.09
3	---	9.76	7.29	---	---	---	---	4.22	---	---	8.32	9.12
4	---	9.77	7.23	---	---	---	---	4.27	---	---	8.34	9.14
5	---	9.80	7.16	---	---	---	---	4.47	---	---	8.36	9.16
6	---	9.80	7.16	---	---	---	---	4.56	---	---	8.39	9.17
7	---	9.81	7.16	---	---	---	---	4.72	---	---	8.42	9.18
8	---	9.82	6.75	---	---	---	---	4.87	5.38	---	9.35	9.20
9	---	9.85	6.67	---	---	---	---	4.91	5.25	---	9.37	9.21
10	---	9.86	6.60	---	---	---	---	4.94	5.16	---	9.40	9.22
11	---	9.87	6.39	---	---	---	---	5.00	5.09	---	9.42	9.39
12	---	9.88	6.28	---	---	---	---	5.08	5.07	---	9.45	9.42
13	---	9.84	6.22	---	---	---	---	5.19	5.07	---	9.46	9.46
14	---	9.68	6.15	---	---	---	3.49	5.25	5.07	---	9.46	9.49
15	---	9.47	6.10	---	---	---	3.69	5.33	5.20	---	9.46	9.50
16	---	9.36	---	---	---	---	3.91	5.41	5.29	---	9.46	9.51
17	---	9.23	---	---	---	---	4.09	5.52	5.41	---	9.45	9.54
18	---	9.13	---	---	---	---	4.09	5.58	5.54	---	9.11	9.57
19	---	9.04	---	---	---	---	4.10	5.67	5.65	---	8.86	9.58
20	---	9.01	---	---	---	---	4.11	---	---	---	8.77	9.60
21	---	8.99	---	---	---	---	4.16	---	---	---	8.73	9.62
22	---	8.95	---	---	---	---	4.18	---	---	---	8.73	9.64
23	---	8.85	---	---	---	---	4.18	---	---	7.92	8.73	9.65
24	9.76	8.44	---	---	---	---	4.18	---	---	7.95	8.73	9.67
25	9.76	8.11	---	---	---	---	4.11	---	---	7.98	8.76	9.70
26	9.76	7.88	---	---	---	---	4.11	---	---	8.02	8.80	9.72
27	9.76	7.71	---	---	---	---	4.11	---	---	8.04	8.83	9.74
28	9.76	7.60	---	---	---	---	4.11	---	---	8.07	8.87	9.75
29	9.76	7.47	---	---	---	---	4.11	---	---	8.12	8.90	9.76
30	9.76	7.37	---	---	---	---	4.12	---	---	8.17	8.98	9.78
31	9.76	---	---	---	---	---	---	---	---	8.22	9.02	---
MIN	9.76	7.37	6.10	---	---	---	3.49	4.17	5.07	7.92	8.25	9.06
WATER YEAR 1992	HIGHEST	3.49	APR 14, 1992	LOWEST	9.93	OCT 1, 1991						

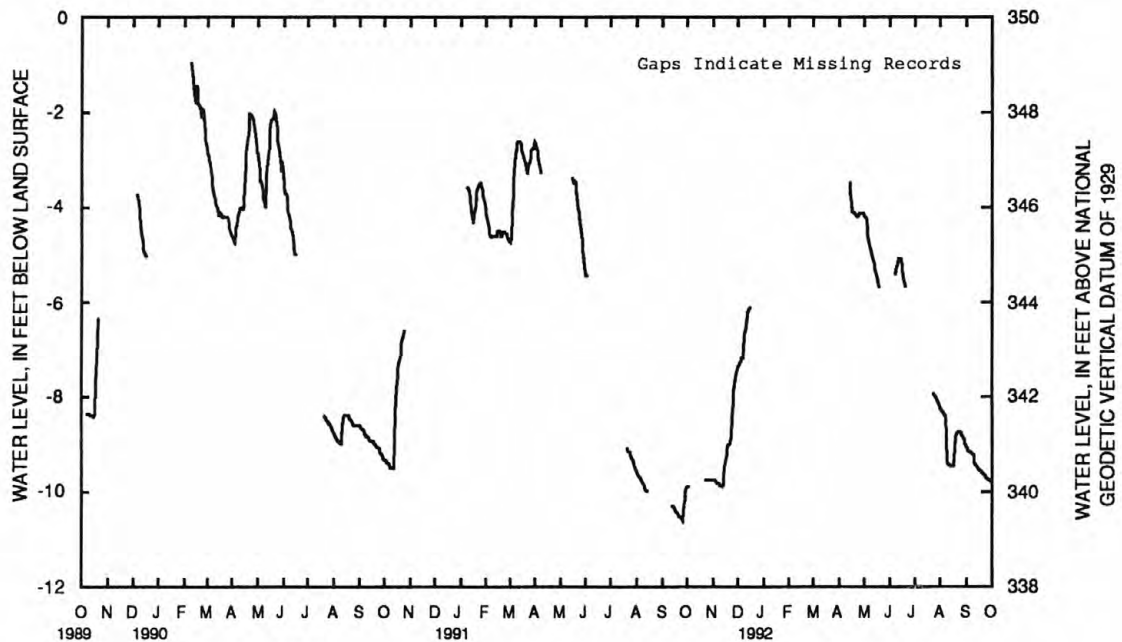
GROUND-WATER LEVELS
WINDHAM COUNTY--Continued

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SC 19



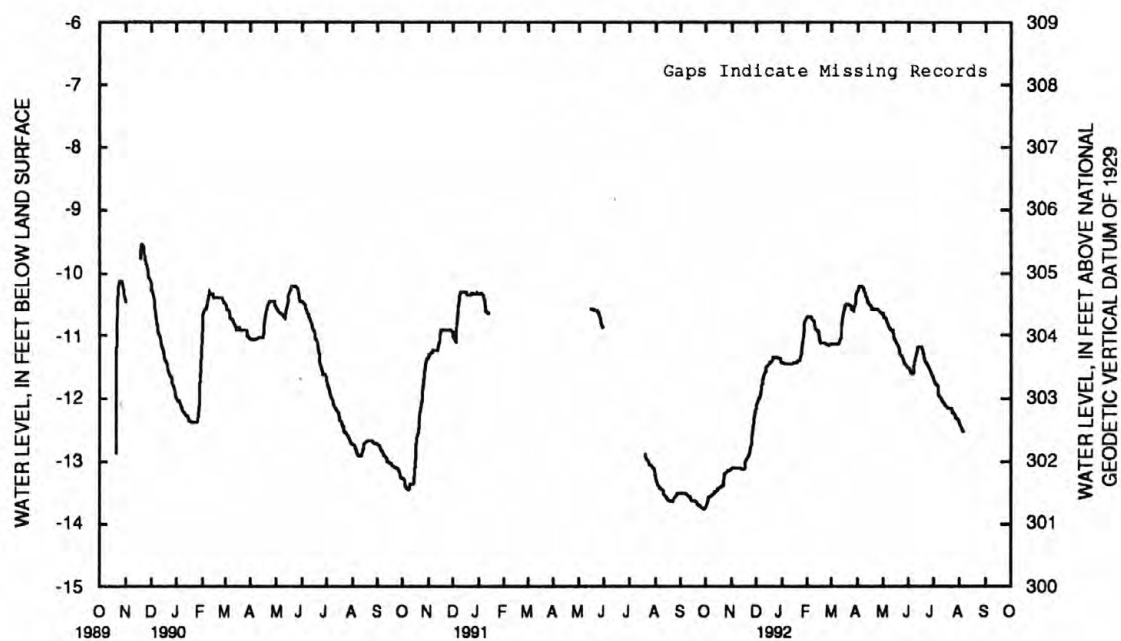
SC 20



GROUND-WATER LEVELS
WINDHAM COUNTY--Continued

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SC 22



QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

LOCAL IDENT- I- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	
HARTFORD COUNTY										
EAST WINDSOR										
EW 139	415300072311601	112DFSF	3.50	28.40	92-08-20	1020	293	6.0	18.0	
EW 140	415329072313501	112DFSF	17.05	33.40	92-08-20	1220	505	7.4	19.0	
EW 140	415329072313501	112DFSF	--	33.40	92-08-20	1221	505	--	--	
ENFIELD										
EF 125	415837072305501	112DFSF	9.70	25.80	92-09-03	1305	97	5.5	22.0	
SOMERS										
SO 110	415856072263101	112DFSF	6.06	17.10	92-09-03	1055	103	7.2	--	
LOCAL IDENT- I- FIER	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
EW 139	9.0	5.5	34	5.5	6.0	3.9	0	34	28	46
EW 140	10.0	4.6	83	15	7.8	2.1	0	89	73	130
EW 140	--	--	81	15	8.0	2.1	--	--	--	130
EF 125	10.0	5.2	6.7	1.5	3.6	6.2	0	13	11	16
SO 110	11.5	9.3	12	2.5	4.0	1.2	0	40	33	12
LOCAL IDENT- I- FIER	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L AS N) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
EW 139	19	<0.10	0.030	14	168	<0.010	9.30	<0.010	<0.20	0.030
EW 140	15	0.20	0.080	14	358	<0.010	18.0	<0.010	<0.20	0.060
EW 140	15	0.20	0.080	14	328	<0.010	18.0	<0.010	<0.20	0.060
EF 125	3.2	<0.10	<0.010	9.6	44	<0.010	2.80	0.020	<0.20	0.010
SO 110	4.8	0.10	<0.010	15	70	<0.010	0.130	0.010	<0.20	0.050
LOCAL IDENT- I- FIER	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	ALPHA SED SUSP DRY WGH AS TH-230 (PCI/L) (04127)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)
EW 139	0.020	<3	<1	4.8	<0.6	<0.6	<0.6	0.70	0.45	0.84
EW 140	0.050	<3	12	2.6	<0.6	<0.6	<0.6	0.55	0.38	0.69
EW 140	0.060	<3	13	2.7	<0.6	<0.6	<0.6	0.52	0.36	0.72
EF 125	<0.010	7	58	5.6	<0.6	<0.6	0.7	0.31	0.21	0.96
SO 110	0.030	21	17	0.9	28	<0.6	41	0.43	0.32	0.49
LOCAL IDENT- I- FIER	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	RA-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L) (76004)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	GROSS ALPHA, DIS- SOLVED TOTAL (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED TOTAL (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADON 222 TOTAL (PCI/L) (82303)	
EW 139	1.4	35	0.28	0.48	<0.6	<0.6	3.7	<0.6	270	
EW 140	0.90	36	0.19	0.60	0.7	<0.6	1.9	<0.6	340	
EW 140	0.96	37	0.18	0.52	<0.6	<0.6	2.0	<0.6	240	
EF 125	1.4	28	0.50	0.56	<0.6	1.0	5.1	<0.6	430	
SO 110	0.57	27	25	8.4	<0.6	52	0.8	25	420	

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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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