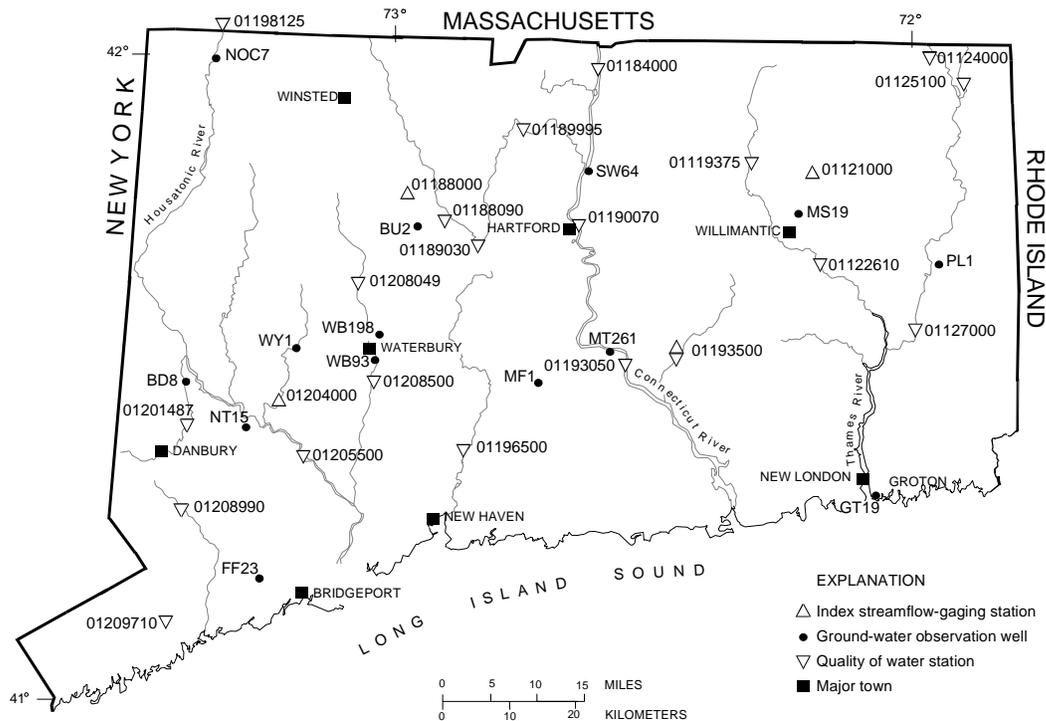


**U.S. Department of the Interior  
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS  
IN CONNECTICUT, MARCH 1999**

*The USGS provides maps, reports, and information to help others manage, develop, and protect America's water, energy, mineral, land, and biological resources.*



**DATA-COLLECTION SITES USED IN THIS REPORT**

This report contains a small part of the ground-water, surface-water, and water-quality data collected by the USGS at sites in Connecticut. More complete information may be found in the annual Water-Data Report. Data for this report were collected by the USGS in cooperation with the Connecticut Dept. of Environmental Protection.

For more information on USGS programs in Connecticut, please contact Virginia de Lima (District Chief); 101 Pitkin St., East Hartford, CT 06108; **phone (860) 291-6740**; fax (860) 291-6799; dc\_ct@usgs.gov

Additional earth science information, including this document, is on the USGS Home Page on the World Wide Web at <http://www.usgs.gov> or the Connecticut District home page at <http://conn.er.usgs.gov> For more information on all USGS reports and products (including maps, images, and computerized data), call **1-888-ASK-USGS**

**INDEX TO INFORMATION**

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**GROUND-WATER LEVELS**

Ground-water levels during March increased in all wells, except for GT-19 (Groton) and PL-1 (Plainfield), which decreased. Most ground-water levels were in the normal range, except for MF-1 (Middlefield), MS-19 (Mansfield), MT-261 (Middletown), NT-15 (Newtown), WB-93 (Waterbury), and WY-1 (Woodbury), which were in the above-normal range.

Ground-water levels are in feet below land surface. Statistics are based on period of record (through calendar year 1998).

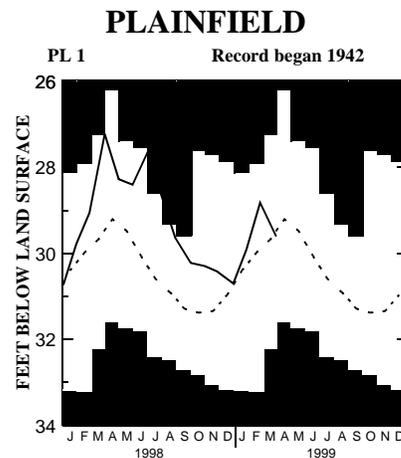
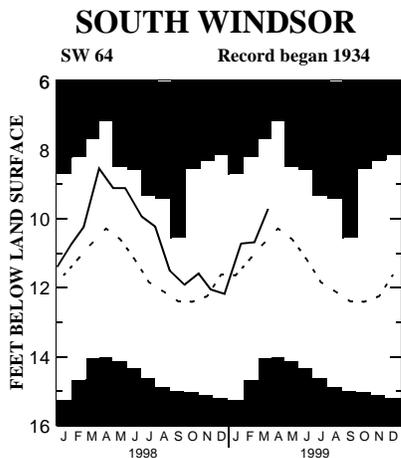
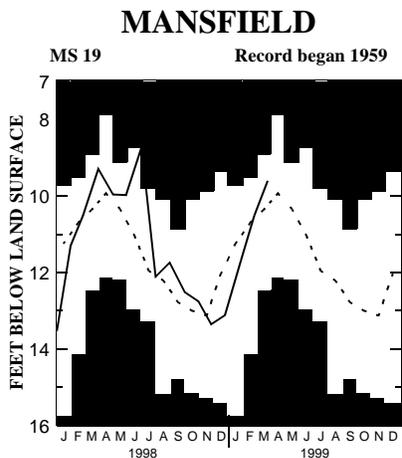
WELL NUMBER AND TOWN	MAR. 1999 GROUND-WATER LEVEL (date measured)		FEB. 1999 GROUND- WATER LEVEL	MAR. 1998 GROUND- WATER LEVEL	MAR. MAXIMUM GROUND-WATER LEVEL (year recorded)		MAR. MINIMUM GROUND-WATER LEVEL (year recorded)		MAR. MEDIAN GROUND- WATER LEVEL
	Value	Date			Value	Year	Year		
BD-8 (Brookfield)	28.77	3/31	29.71	28.30	27.40	1972	31.69	1985	29.44
BU-2 (Burlington)	18.52	3/25	22.43	19.99	13.71	1953	28.65	1985	18.47
FF-23 (Fairfield)	7.65	3/31	7.98	7.59	5.74	1978	8.41	1980	7.57
GT-19 (Groton)	14.12	3/28	14.05	12.50	11.32	1980	16.37	1992	14.16
MF-1 (Middlefield)	3.75	3/24	6.30	5.19	2.69	1978	8.82	1963	5.48
MS-19 (Mansfield)	9.60	3/25	10.51	9.29	8.89	1972	12.43	1969	10.37
MT-261 (Middletown)	18.54	3/24	18.93	18.23	17.39	1977	21.37	1963	19.28
NOC-7 (North Canaan)	9.09	3/31	9.30	9.08	7.60	1963	9.85	1983	9.15
NT-15 (Newtown)	2.37	3/31	3.97	2.53	0.75	1983	5.78	1989	3.32
PL-1 (Plainfield)	29.60	3/29	28.82	27.77	27.78	1953	32.19	1966	29.69
SW-64 (S. Windsor)	9.71	3/25	10.68	8.54	7.65	1936	14.00	1966	10.73
WB-93 (Waterbury)	25.50	3/31	26.60	25.95	23.76	1983	27.85	1997	26.51
WB-198 (Waterbury)	11.56	3/31	13.76	11.50	5.82	1948	18.70	1985	12.29
WY-1 (Woodbury)	20.67	3/31	21.45	20.67	19.37	1983	27.54	1966	22.21

(Ground-water level data collected by USGS personnel and individual observers.)

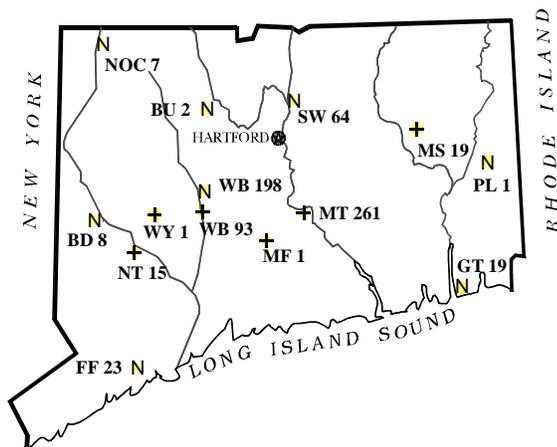
## GROUND-WATER LEVELS (CONTINUED)

(Status of ground-water storage as indicated by the water level changes in observation wells, as shown on hydrographs)

-  Shaded area on graphs show highest and lowest water levels of record through calendar year 1998.
-  Solid line shows current water levels.
-  Dashed line is monthly median for period of record through calendar year 1998.



MASSACHUSETTS



**ABOVE NORMAL**

Within the highest 25% of record for this month.



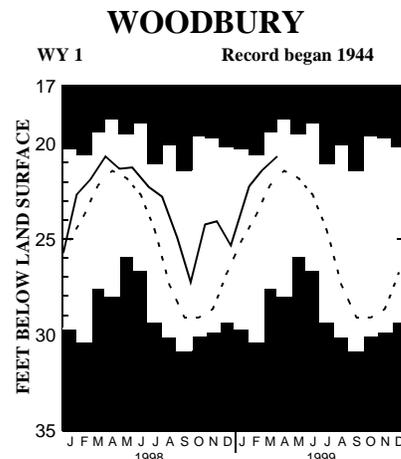
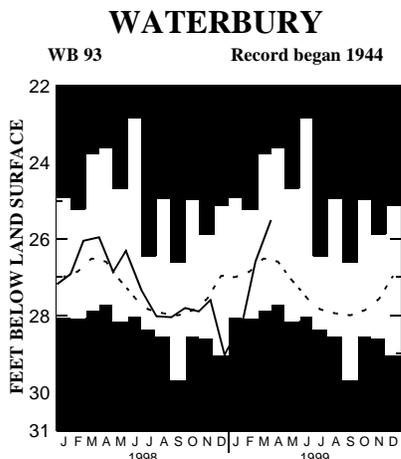
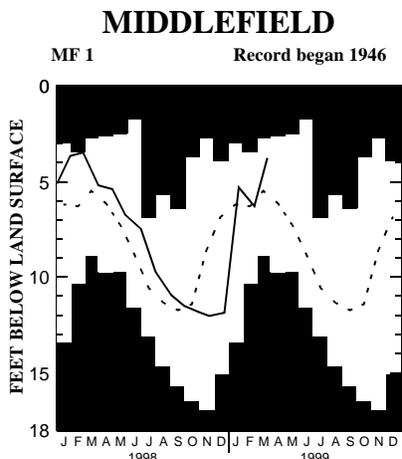
**NORMAL RANGE**

Between the highest and lowest 25% of record for this month.



**BELOW NORMAL**

Within the lowest 25% of record for this month.



**STREAMFLOW** (measured in cubic feet per second) → PROVISIONAL DATA ←

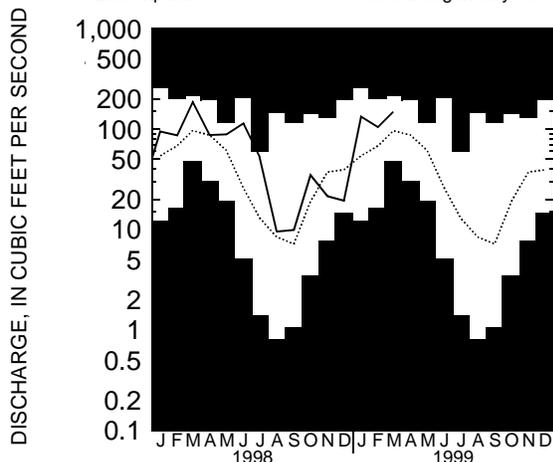
In general, streamflows in were in the normal to above-normal range. Mount Hope River (northeastern Connecticut) remained in the above-normal range for the third consecutive month. Burlington Brook (northwestern Connecticut) increased to the above-normal range following one month in the normal range. Salmon River (southeastern Connecticut) increased to the above-normal range following one month in the normal range. Pomperaug River (southwestern Connecticut) remained in the normal range for the second consecutive month. Across the State, mean streamflow for March averaged 138 percent of the March long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MAR. 1999 MEAN	FEB. 1999 MEAN	MAR. 1998 MEAN	MARCH MAXIMUM VALUE (year recorded)		MARCH MINIMUM VALUE (year recorded)		MAR. MEDIAN (1961-90)
	MT HOPE RIVER (01121000)	149	105	187	219	1972	47.4	1981
BURLINGTON (01188000)	20.0	12.4	19.7	39.4	1983	6.37	1985	15.7
SALMON RIVER (01193500)	466	371	519	797	1936	170	1985	338
POMPERAUG (01204000)	301	221	301	557	1936	112	1989	236

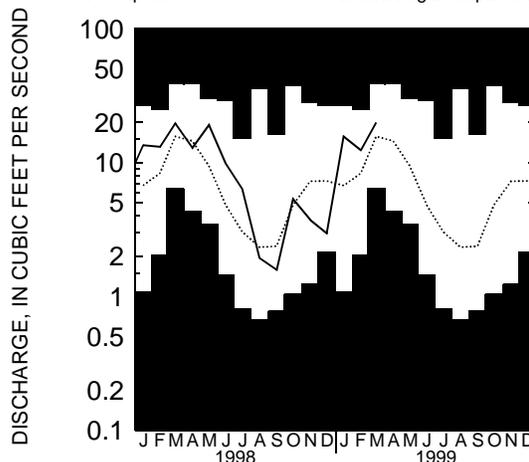
**MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS**

Shaded areas on graphs show highest and lowest monthly mean discharge of record.  
 — Current record      ..... Median (1961-1990)

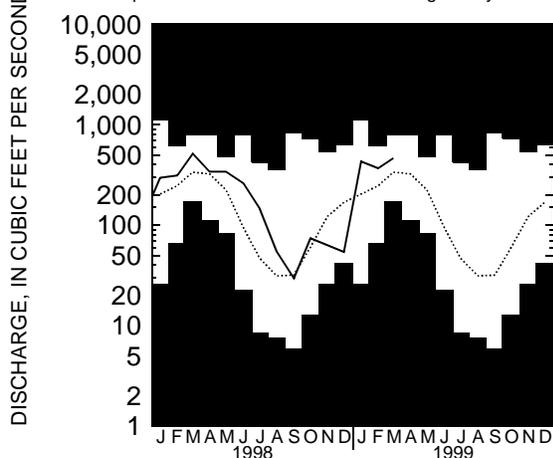
**MOUNT HOPE RIVER NEAR WARRENVILLE**  
 28.6 sq. mi.      Record began July 1940



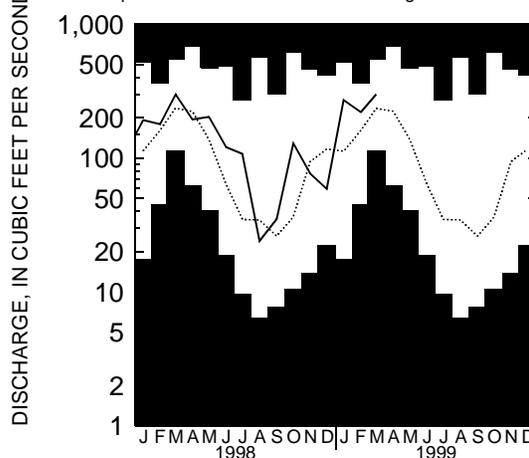
**BURLINGTON BROOK NEAR BURLINGTON**  
 4.10 sq. mi.      Record began Sept. 1931



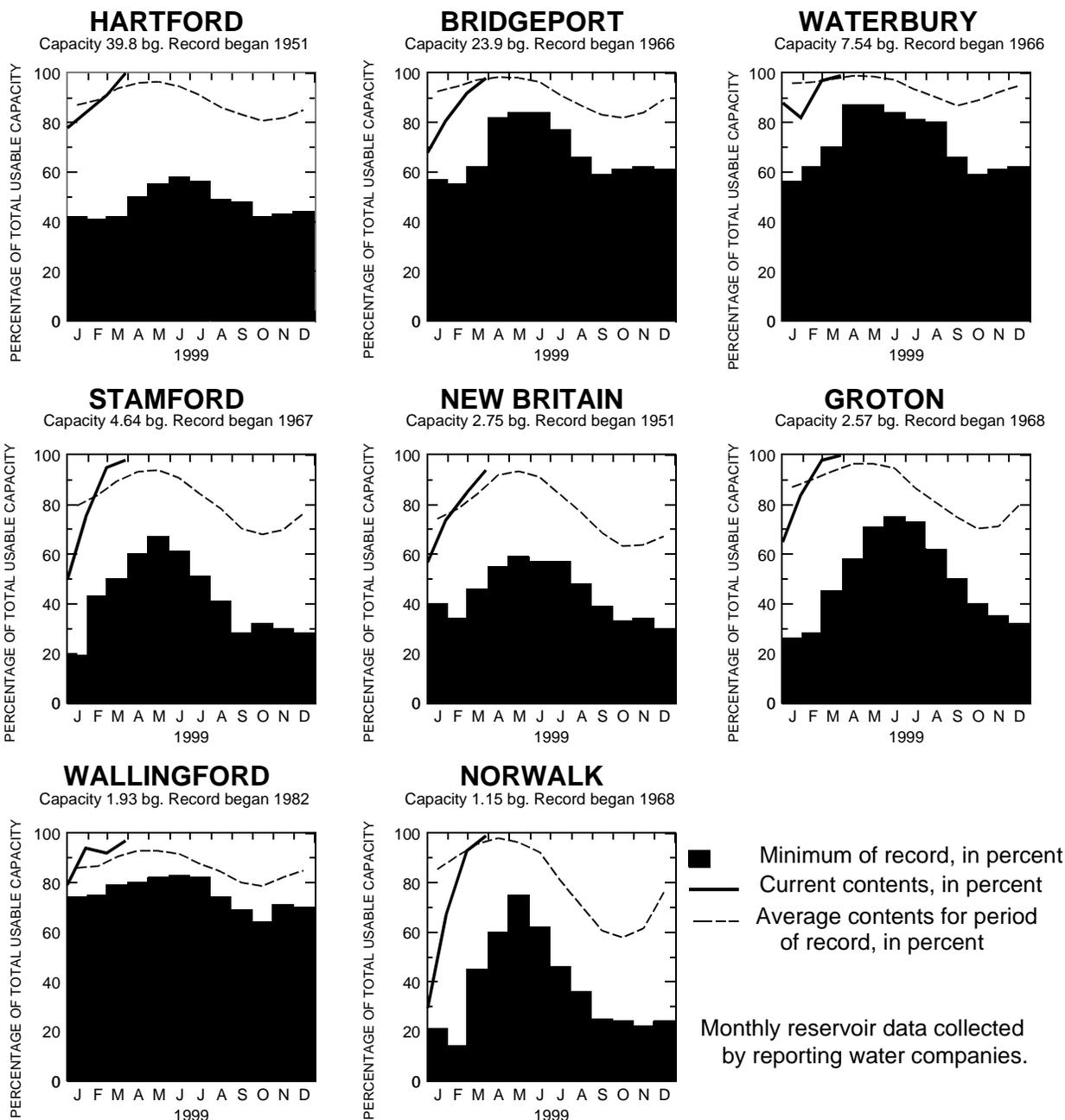
**SALMON RIVER NEAR EAST HAMPTON**  
 100 sq. mi.      Record began July 1928



**POMPERAUG RIVER AT SOUTHURY**  
 75.1 sq. mi.      Record began June 1932



**RESERVOIRS (Contents in billion gallons)**



RESERVOIR SYSTEM (usable capacity, in billion gallons)	FEB. CAPACITY (PERCENT)	MAR. CAPACITY (PERCENT)	LONG-TERM AVERAGE CAPACITY FOR MARCH (PERCENT)
Hartford (39.8 bg)	91	100	94
Bridgeport (23.9 bg)	92	98	97
Waterbury (7.54bg)	97	99	97
Stamford (4.64 bg)	95	98	89
New Britain (2.75 bg)	85	94	84
Groton (2.57 bg)	98	100	93
Wallingford (1.93 bg)	92	97	90
Norwalk (1.15 bg)	93	99	96

**U.S. Department of the Interior  
 U.S. Geological Survey  
 Water Resources Division  
 101 Pitkin St.,  
 E. Hartford, Connecticut 06108**

**CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL QUALITY OF SELECTED STREAMS IN CONNECTICUT**

[Station locations shown on front page; --, not applicable; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; **bacteriological analysis** reconnaissance data enumerated using membrane filter method with immediate incubation; **col/100 mL**, colonies per 100 milliliters; **K**, results based on colony count outside the acceptable range (non-ideal colony count)]

PROVISIONAL DATA

USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 1999	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L) %SATURATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	3/2	406/13	72	3.0	14.0/106	6.50	47	16K
01122610 Shetucket R. at South Windham	3/16	1260/21	84	2.5	13.1/98	6.90	36	16K
01124000 Quinebaug R. at Quinebaug	3/10	602/11	124	1.0	15.4/110	6.90	1000	260
01125100 French R. at North Grosvenordale	3/16	335/--	163	2.5	14.1/104	7.10	108	32
01127000 Quinebaug R. at Jewett City	3/9	3120/9	100	1.5	14.5/101	6.80	26K	27
01184000 Connecticut R. at Thompsonville	3/26	43800/7	86	3.5	13.9/104	7.05	--	--
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	SITE NOT SAMPLED THIS MONTH							
01189995 Farmington R. at Tariffville	SITE NOT SAMPLED THIS MONTH							
01190070 Connecticut R. at Hartford	SITE NOT SAMPLED THIS MONTH							
01193050 Connecticut R. at Middle Haddam	SITE NOT SAMPLED THIS MONTH							
01193500 Salmon R. near East Hampton	SITE NOT SAMPLED THIS MONTH							
01196500 Quinnipiac R. at Wallingford	SITE NOT SAMPLED THIS MONTH							
01198125 Housatonic R. near Ashley Falls, MA	3/30	1650/--	266	6.5	11.7/98	9.59	11K	12K
01201487 Still R. at Rt. 7 at Brookfield Center	3/3	100/--	400	5.0	13.5/107	7.90	92	72
01205500 Housatonic R. at Stevenson	SITE NOT SAMPLED THIS MONTH							
01208049 Naugatuck R. near Waterville	3/8	450/--	157	1.0	14.4/100	7.17	42	17K
01208500 Naugatuck R. at Beacon Falls	3/8	616/28	210	2.5	14.1/102	7.20	164	220
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	3/17	48/--	282	5.0	14.2/115	7.94	--	--