

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

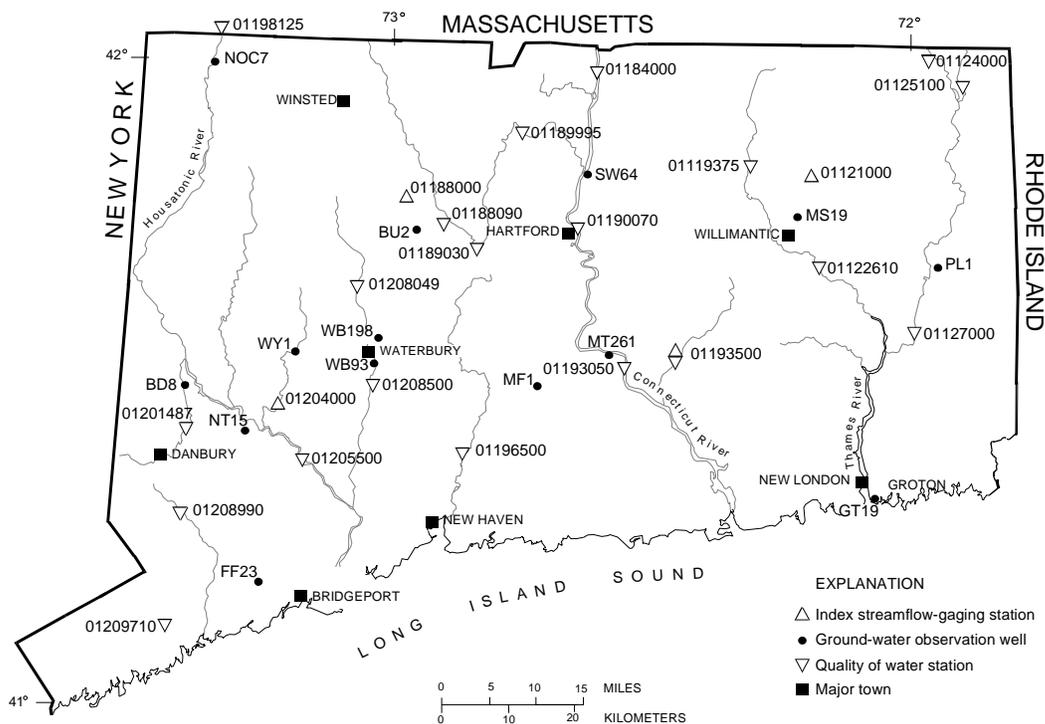


**WATER-RESOURCES CONDITIONS  
IN CONNECTICUT, FEBRUARY 1999**

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

**DID YOU KNOW...**

Precipitation data, which was formerly provided by the Connecticut Department of Environmental Protection, will no longer be included in this report. We apologize for any inconvenience this may cause.



**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**

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## GROUND-WATER LEVELS

Ground-water levels during February increased in all wells, except for BU-2 (Burlington), FF-23 (Fairfield), MF-1 (Middlefield), and NOC-7 (North Canaan), which decreased. Most ground-water levels were in the normal range, except for BU-2 (Burlington) and FF-23 (Fairfield), which were in the below-normal range, and PL-1 (Plainfield) 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).

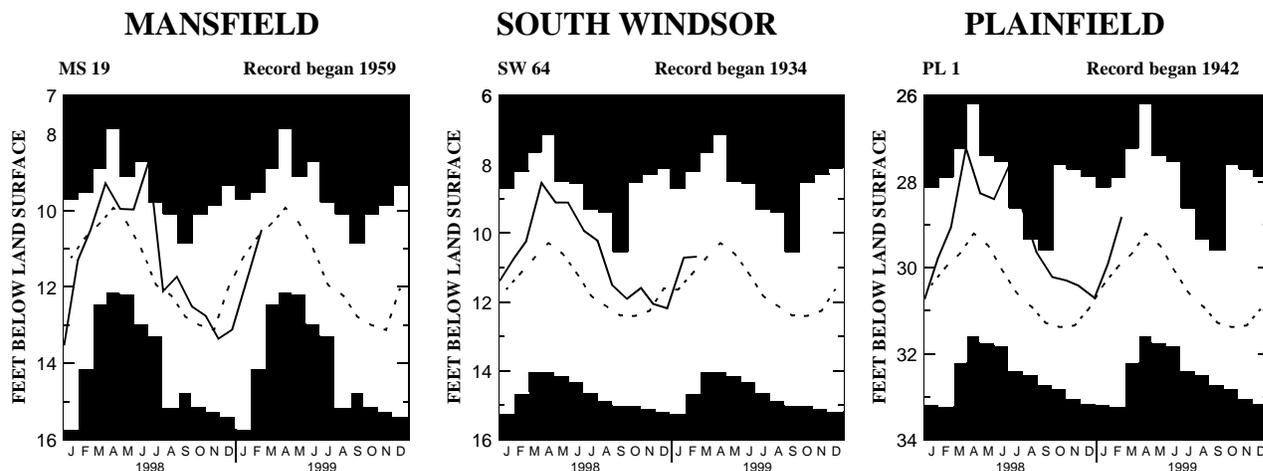
WELL NUMBER AND TOWN	FEB. 1999 GROUND-WATER LEVEL (date measured)		JAN. 1999 GROUND- WATER LEVEL	FEB. 1998 GROUND- WATER LEVEL	FEB. MAXIMUM GROUND-WATER LEVEL (year recorded)		FEB. MINIMUM GROUND-WATER LEVEL (year recorded)		FEB. MEDIAN GROUND- WATER LEVEL
BD-8 (Brookfield)	2/26	29.71	30.35	29.60	27.55	1970/1973	32.40	1967	30.27
BU-2 (Burlington)	2/26	22.43	17.88	19.57	15.69	1953	33.18	1985	19.57
FF-23 (Fairfield)	2/26	7.98	7.62	7.45	6.80	1979	8.45	1980	7.79
GT-19 (Groton)	2/14	14.05	15.08	13.20	11.23	1979	17.14	1966	14.42
MF-1 (Middlefield)	2/24	6.30	5.30	3.47	3.45	1961	10.28	1985	6.30
MS-19 (Mansfield)	2/24	10.51	11.68	10.51	9.51	1990	14.12	1966	10.70
MT-261 (Middletown)	2/24	18.93	19.83	18.78	18.09	1981	21.68	1966	19.61
NOC-7 (North Canaan)	2/12	9.30	9.19	9.16	8.50	1981/1984	9.84	1977	9.40
NT-15 (Newtown)	2/26	3.97	5.06	2.65	2.06	1975	6.78	1981	4.23
PL-1 (Plainfield)	2/23	28.82	29.91	29.06	27.90	1979	33.21	1966	29.98
SW-64 (S. Windsor)	2/24	10.68	10.71	10.23	8.19	1976	14.65	1966	11.16
WB-93 (Waterbury)	2/26	26.60	28.10	26.05	25.22	1951	28.05	1977	26.85
WB-198 (Waterbury)	2/26	13.76	16.35	13.13	6.41	1949	19.69	1985	13.20
WY-1 (Woodbury)	2/26	21.45	22.22	21.95	20.56	1973	30.38	1977	23.71

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

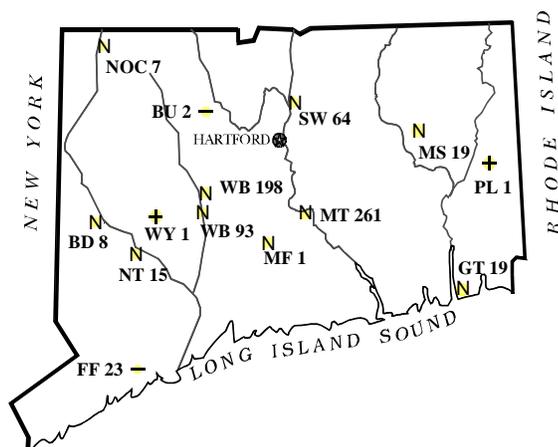
## GROUND-WATER LEVELS (CONTINUED)

(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.



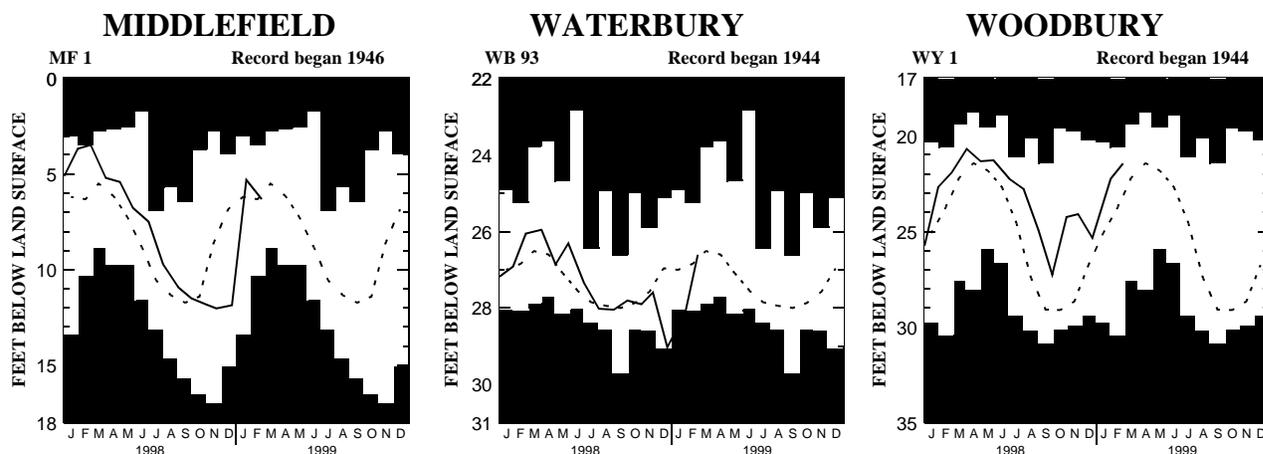
### NORMAL RANGE

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 ←

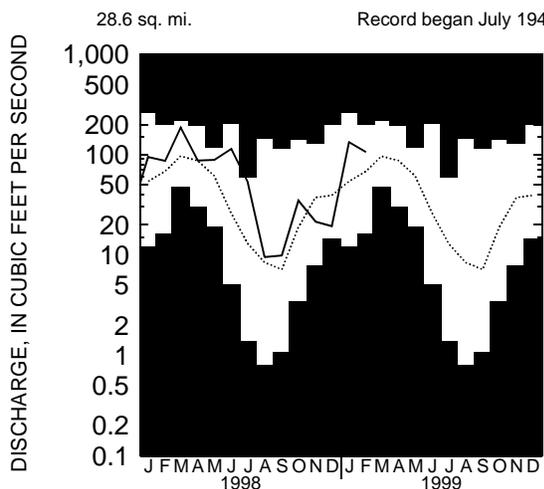
In general, streamflows in were in the normal to above-normal range. Mount Hope River (northeastern Connecticut) remained in the above-normal range for the second consecutive month. Burlington Brook (northwestern Connecticut) fell back to the normal range following one month in the above-normal range. Salmon River (southeastern Connecticut) returned to the normal range following one month in the above-normal range. Pomperaug River (southwestern Connecticut) returned to the normal range following one month in the above-normal range. Across the State, mean streamflow for February averaged 148 percent of the February long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	FEB. 1999 MEAN	JAN. 1999 MEAN	FEB. 1998 MEAN	FEBRUARY MAXIMUM VALUE (year recorded)		FEBRUARY MINIMUM VALUE (year recorded)		FEB. MEDIAN (1961-90)
MT HOPE RIVER (01121000)	105	134	86.5	203	1979	16.2	1980	68.1
BURLINGTON (01188000)	12.4	15.7	13.1	25.0	1981	2.02	1934	8.31
SALMON RIVER (01193500)	371	433	313	623	1973	64.6	1934	247
POMPERAUG (01204000)	221	273	193	366	1970	44.6	1936	161

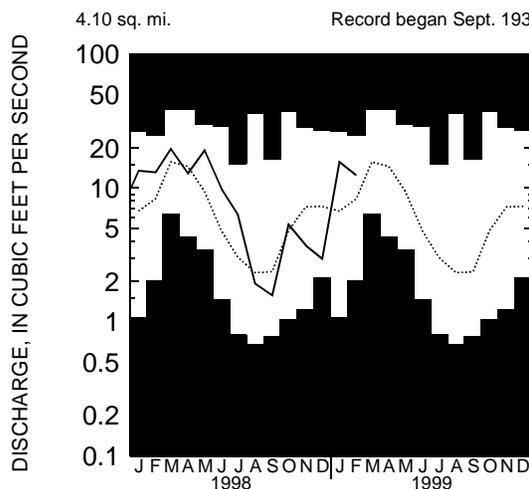
**MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS**

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

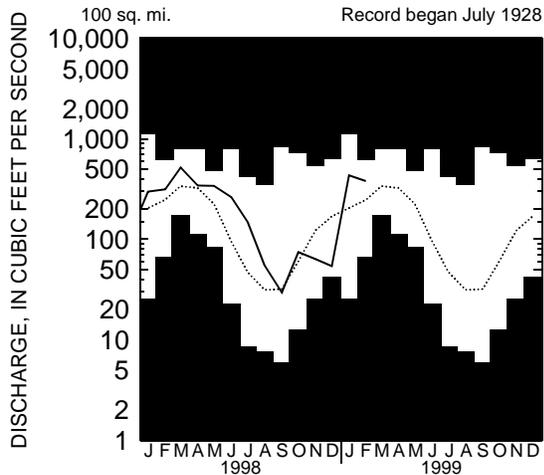
**MOUNT HOPE RIVER NEAR WARRENVILLE**



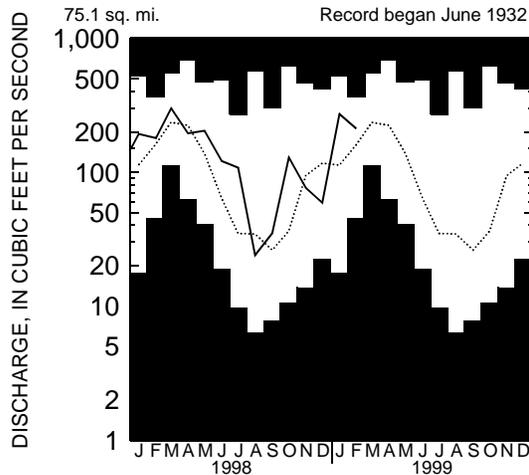
**BURLINGTON BROOK NEAR BURLINGTON**



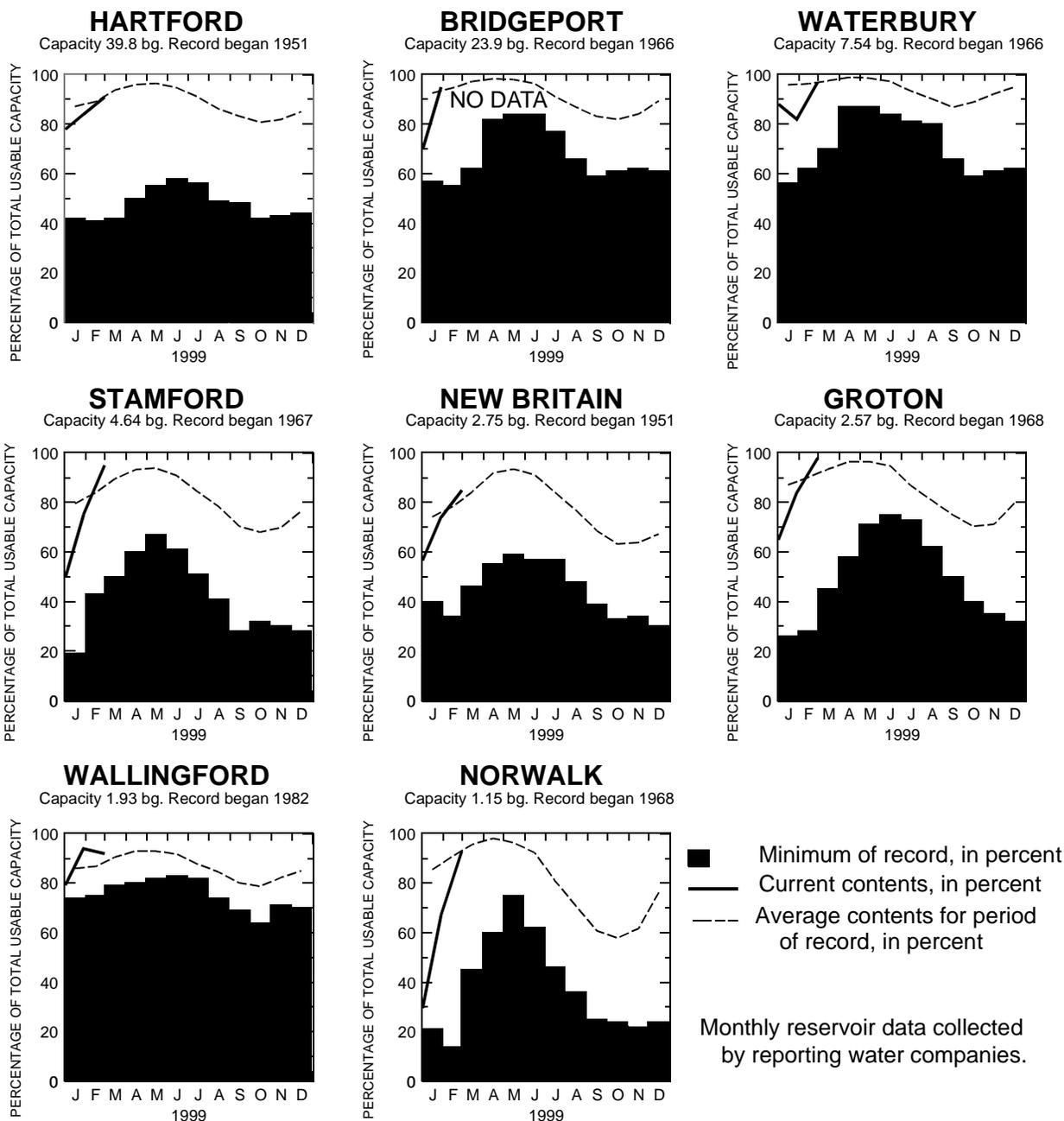
**SALMON RIVER NEAR EAST HAMPTON**



**POMPERAUG RIVER AT SOUTH BURY**



**RESERVOIRS (Contents in billion gallons)**



RESERVOIR SYSTEM (usable capacity, in billion gallons)	JAN. CAPACITY (PERCENT)	FEB. CAPACITY (PERCENT)	LONG-TERM AVERAGE CAPACITY FOR FEBRUARY (PERCENT)
Hartford (39.8 bg)	84	91	89
Bridgeport (23.9 bg)	95	No data	95
Waterbury (7.54bg)	82	97	96
Stamford (4.64 bg)	75	95	84
New Britain (2.75 bg)	74	85	78
Groton (2.57 bg)	84	98	90
Wallingford (1.93 bg)	94	92	87
Norwalk (1.15 bg)	67	93	91

**U.S. Department of the Interior  
 U.S. Geological Survey  
 Water Resources Division  
 101 Pitkin St.,  
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**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								
01122610 Shetucket R. at South Windham								
01124000 Quinebaug R. at Quinebaug								
01125100 French R. at North Grosvenordale								
01127000 Quinebaug R. at Jewett City								
01184000 Connecticut R. at Thompsonville	2/3	22500/23	147	0.5	14.5/101	7.19	3900	780
01188090 Farmington R. at Unionville								
01189030 Pequabuck R. at Farmington	2/22	95.4/--	225	0.5	12.4/87	7.20	3800	500K
01189995 Farmington R. at Tariffville	2/23	1090/37	130	0.5	13.8/96	7.20	180	81
01190070 Connecticut R. at Hartford	2/10	--/--	122	2.0	15.0/108	7.14	144	25
01193050 Connecticut R. at Middle Haddam	2/10	--/--	130	2.0	15.1/109	7.10	440	144
01193500 Salmon R. near East Hampton								
01196500 Quinnipiac R. at Wallingford	2/8	361/14	261	3.5	13.5/102	7.50	3800	1100
01198125 Housatonic R. near Ashley Falls, MA								
01201487 Still R. at Rt. 7 at Brookfield Center								
01205500 Housatonic R. at Stevenson								
01208049 Naugatuck R. near Waterville								
01208500 Naugatuck R. at Beacon Falls								
01208990 Saugatuck R. near Redding								
01209710 Norwalk R. near Winnipauk	2/16	59.3/--	247	2.5	13.9/102	7.70	15K	14K