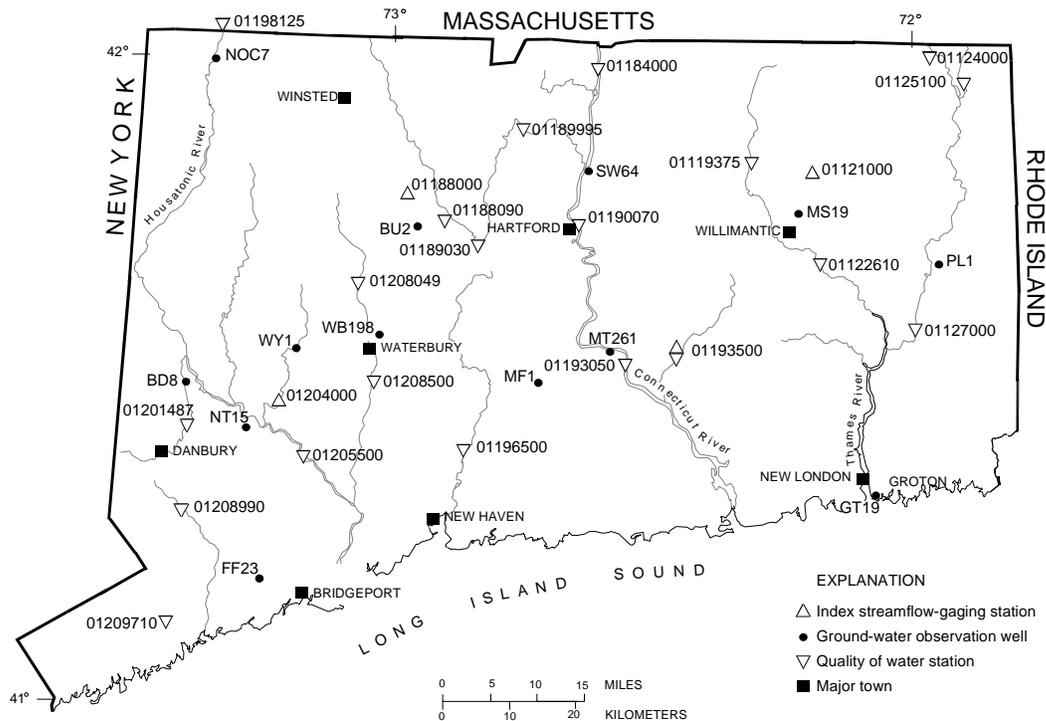


**U.S. Department of the Interior  
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS  
IN CONNECTICUT, JUNE 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**

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## GROUND-WATER LEVELS

Ground-water levels during June decreased in all wells. All wells were in the below-normal range, except for MF-1 (Middlefield), NOC-7 (N. Canaan), and SW-64 (S. Windsor), which were in the normal range.

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

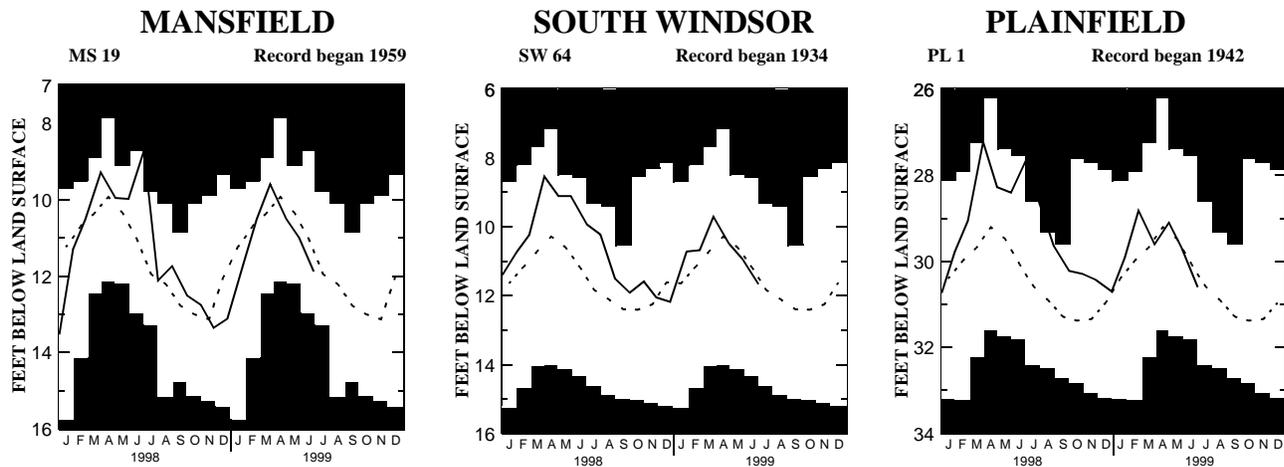
WELL NUMBER AND TOWN	JUNE 1999 GROUND-WATER LEVEL (date measured)		MAY 1999 GROUND- WATER LEVEL	JUNE 1998 GROUND- WATER LEVEL	JUNE MAXIMUM GROUND-WATER LEVEL (year recorded)		JUNE MINIMUM GROUND-WATER LEVEL (year recorded)		JUNE MEDIAN GROUND- WATER LEVEL
BD-8 (Brookfield)	6/30	30.21	29.11	29.94	26.89	1972	31.85	1985	29.45
BU-2 (Burlington)	6/28	20.42	19.82	18.67	14.00	1952	21.50	1964	18.56
FF-23 (Fairfield)	6/30	8.43	8.05	8.05	4.78	1972	8.55	1986	8.13
GT-19 (Groton)	6/27	16.72	16.17	14.19	7.35	1982	16.98	1987	15.46
MF-1 (Middlefield)	6/24	9.40	8.65	7.48	1.67	1992	11.54	1965	8.88
MS-19 (Mansfield)	6/25	11.88	11.00	8.72	8.72	1998	12.94	1965	11.05
MT-261 (Middletown)	6/24	20.88	20.18	19.86	17.40	1984	21.41	1994	20.51
NOC-7 (North Canaan)	6/16	9.80	9.60	9.55	7.80	1984	10.10	1964/65	9.66
NT-15 (Newtown)	6/30	7.40	4.58	4.19	0.61	1972	8.60	1988	5.86
PL-1 (Plainfield)	6/29	30.60	29.70	27.61	27.52	1987	31.79	1966	30.06
SW-64 (S. Windsor)	6/28	11.66	10.95	9.92	8.55	1989	14.30	1966	11.20
WB-198 (Waterbury)	6/30	16.65	14.83	14.02	9.47	1972	19.01	1985	13.77
WY-1 (Woodbury)	6/30	25.16	22.58	22.24	18.90	1984	26.60	1981	22.72

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

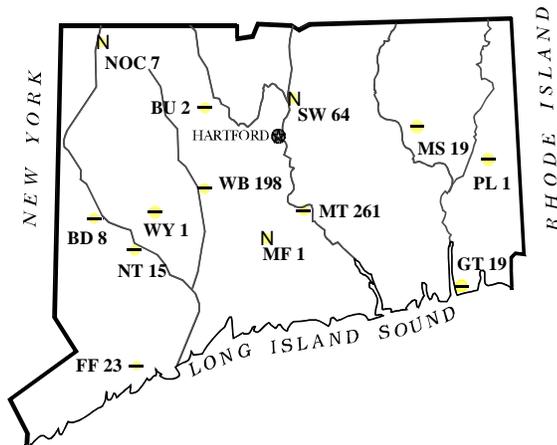
## GROUND-WATER LEVELS (CONTINUED)

(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.

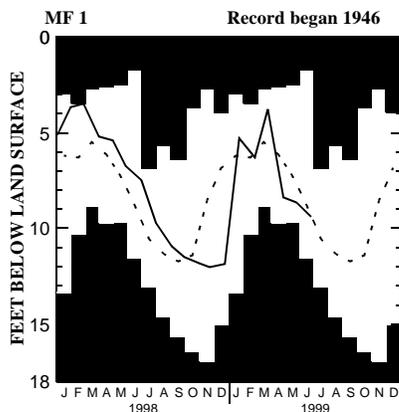


**BELOW NORMAL**

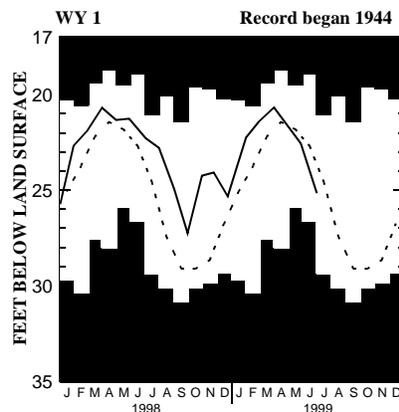
Within the lowest 25% of record for this month.



### MIDDLEFIELD



### WOODBURY



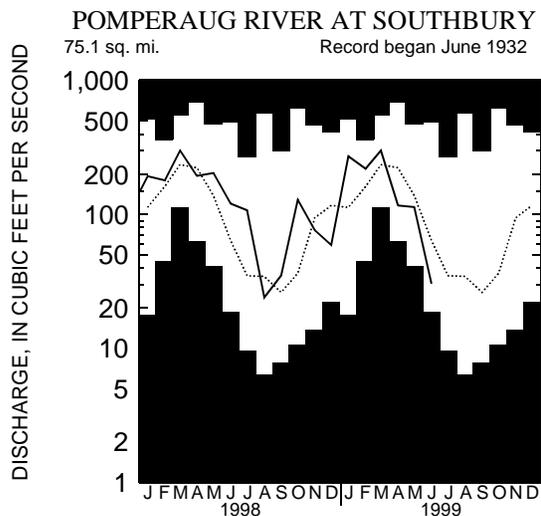
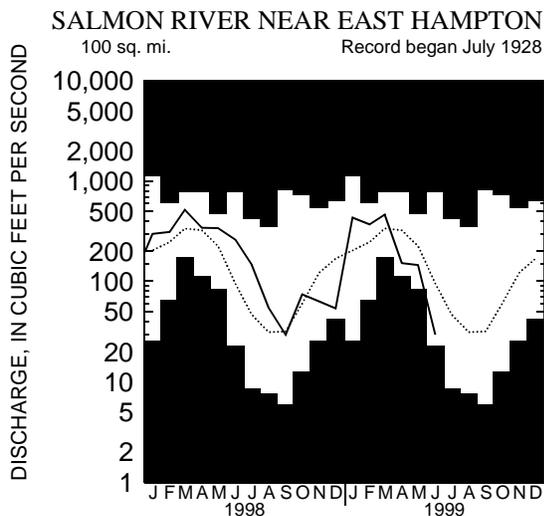
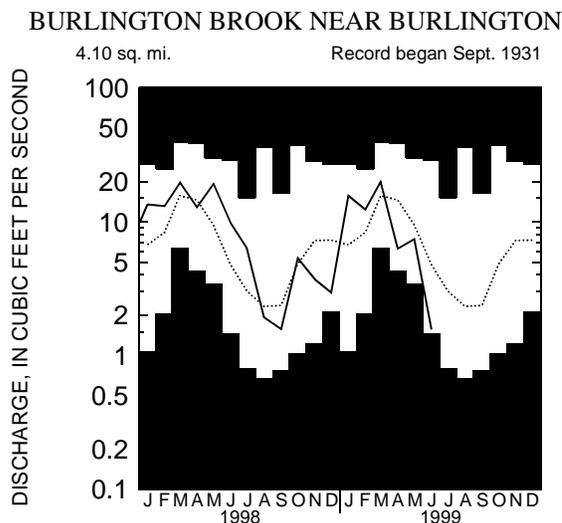
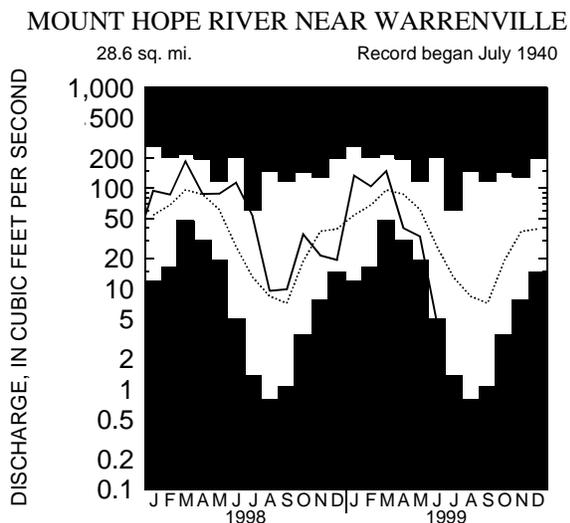
**STREAMFLOW** (measured in cubic feet per second) → PROVISIONAL DATA ←

Streamflows in June were in the below-normal range for the entire State. Mount Hope River (NE Connecticut) remained in the below-normal range for the third consecutive month and recorded the lowest mean daily and mean monthly values for June. Burlington Brook (NW Connecticut) fell to the below-normal range after being in the normal range for one month. Salmon River (SE Connecticut) remained in the below-normal range for the third consecutive month. Pomperaug River (SW Connecticut) fell to the below-normal range after being in the normal range for one month. Across the State, mean streamflow for June averaged 32 percent of the June long-term median value.

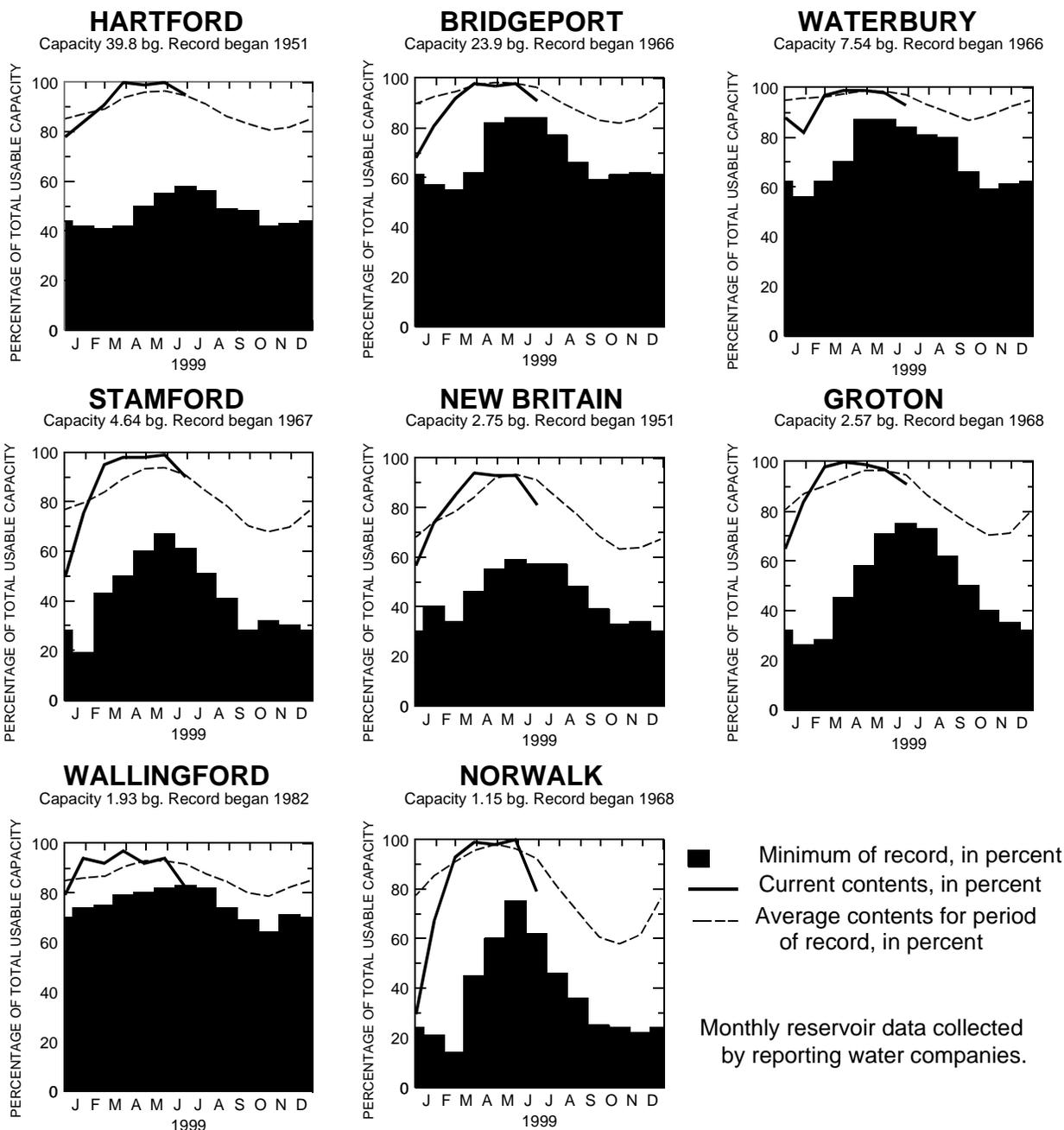
USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	JUNE 1999 MEAN	MAY 1999 MEAN	JUNE 1998 MEAN	JUNE MAXIMUM VALUE (year recorded)		JUNE MINIMUM VALUE (year recorded)		JUNE MEDIAN (1961-90)
MT HOPE RIVER (01121000)	4.66	33.3	114	207	1982	4.99	1957	26.2
BURLINGTON (01188000)	1.57	7.46	9.80	29.2	1982	1.45	1957	4.79
SALMON RIVER (01193500)	29.7	146	263	801	1982	22.4	1957	95.6
POMPERAUG (01204000)	30.5	114	121	493	1982	18.6	1957	64.2

**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)



**RESERVOIRS (Contents in billion gallons)**



RESERVOIR SYSTEM (usable capacity, in billion gallons)	MAY CAPACITY (PERCENT)	JUNE CAPACITY (PERCENT)	LONG-TERM AVERAGE CAPACITY FOR JUNE (PERCENT)
Hartford (39.8 bg)	100	95	95
Bridgeport (23.9 bg)	98	91	96
Waterbury (7.54bg)	98	93	97
Stamford (4.64 bg)	99	90	91
New Britain (2.75 bg)	93	81	91
Groton (2.57 bg)	97	91	95
Wallingford (1.93 bg)	94	82	92
Norwalk (1.15 bg)	100	79	92

**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	6/21	15.0/--	90	17.0	9.7/101	7.60	28	21
01122610 Shetucket R. at South Windham	6/14	102/--	132	23.0	9.5/112	7.60	72	31
01124000 Quinebaug R. at Quinebaug	6/15	50.0/83	201	23.0	8.6/101	7.38	176	80
01125100 French R. at North Grosvenordale	6/15	24.0/--	274	24.5	9.2/112	8.34	83	26
01127000 Quinebaug R. at Jewett City	6/14	129/97	139	22.5	8.1/94	7.53	4980K	292K
01184000 Connecticut R. at Thompsonville	6/23	2800/97	161	24.5	8.4/101	7.87	28K	1K
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	6/22	35.0/--	365	18.5	6.3/68	7.36	240	96
01189995 Farmington R. at Tariffville	6/22	381/89	146	20.5	9.2/102	7.56	148	40
01190070 Connecticut R. at Hartford	6/9	--/--	132	24.5	7.7/92	7.32	52	20
01193050 Connecticut R. at Middle Haddam	6/9	--/--	145	24.5	8.9/107	7.54	18K	11K
01193500 Salmon R. near East Hampton	SITE NOT SAMPLED THIS MONTH							
01196500 Quinnipiac R. at Wallingford	6/7	69.8/85	370	21.0	8.2/94	7.63	248K	41
01198125 Housatonic R. near Ashley Falls, MA	6/30	1640/--	236	22.0	7.0/82	7.81	2700	3700
01201487 Still R. at Rt. 7 at Brookfield Center	6/28	30.0/--	599	23.0	6.4/76	7.68	640	600
01205500 Housatonic R. at Stevenson	SITE NOT SAMPLED THIS MONTH							
01208049 Naugatuck R. near Waterville	6/2	100/--	180	22.5	8.2/96	7.36	48K	<1K
01208500 Naugatuck R. at Beacon Falls	6/2	246/63	261	22.5	9.9/115	7.57	112	16K
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	6/29	5.0/--	317	26.0	9.2/116	8.21	500	100