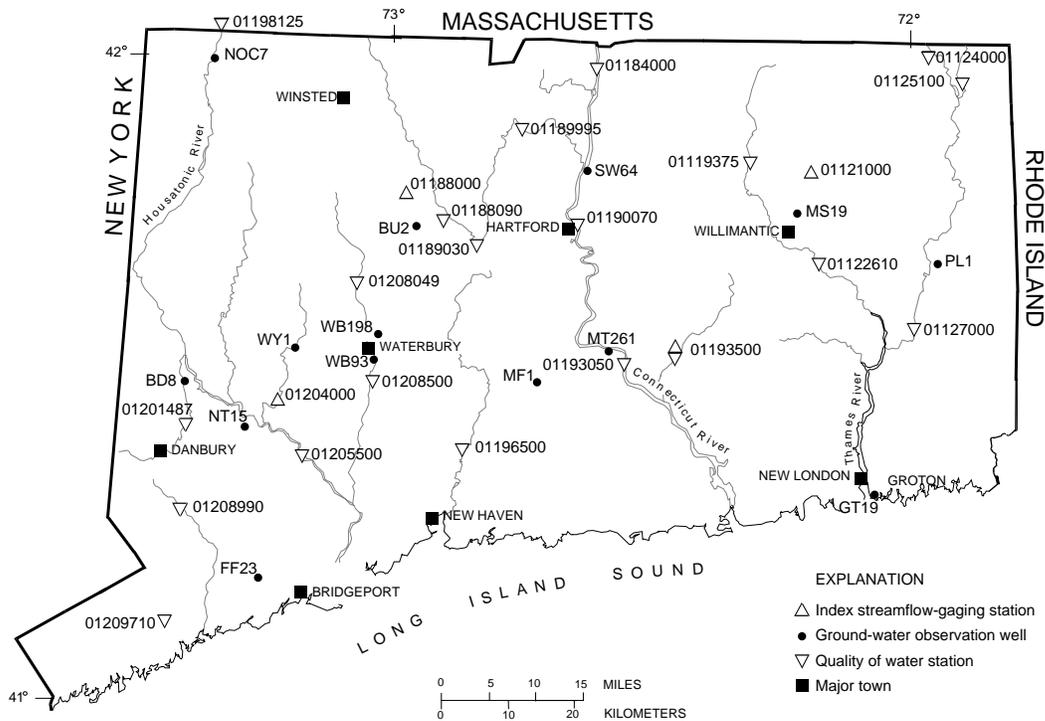


**U.S. Department of the Interior
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, MAY 2002**

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://ct.water.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

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

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

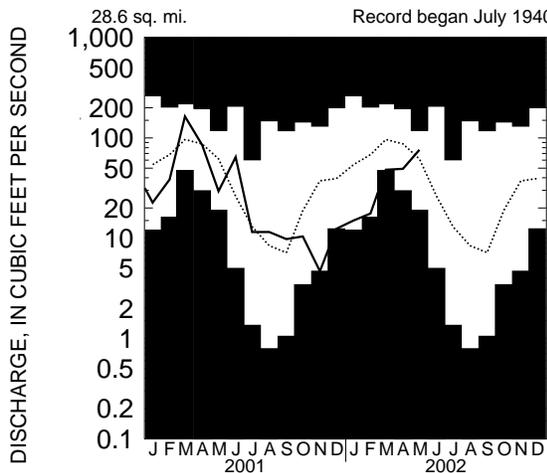
Streamflow across the State was in the normal to above-normal range. Flow at Mount Hope River (NE Connecticut) rose to the above-normal range from the previous month's normal range. Pomperaug River (SW Connecticut), Burlington Brook (NW Connecticut), and the Salmon River (SE Connecticut) all rose to the normal range after 5 to 7 months in the below-normal range. Across the State, mean streamflow for May averaged 112 percent of the May long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MAY 2002 MEAN	APR. 2002 MEAN	MAY 2001 MEAN	MAY MAXIMUM VALUE (year recorded)		MAY MINIMUM VALUE (year recorded)		MAY MEDIAN (1961-90)
MT HOPE RIVER (01121000)	76.2	49.2	29.5	119	1984	19.0	1957	61.6
BURLINGTON (01188000)	9.25	7.06	10.1	30.1	1989	3.42	1965	9.45
SALMON RIVER (01193500)	225	145	116	482	1989	82.6	1986	221
POMPERAUG (01204000)	177	112	94.0	476	1989	40.3	1941	138

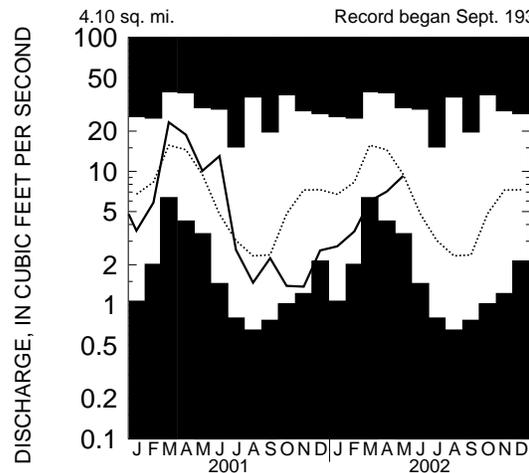
MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

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

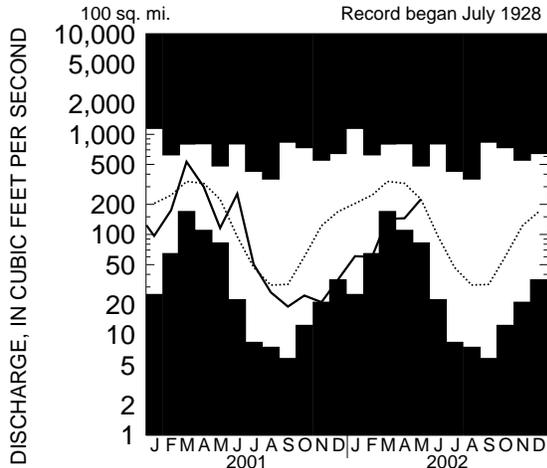
MOUNT HOPE RIVER NEAR WARRENVILLE



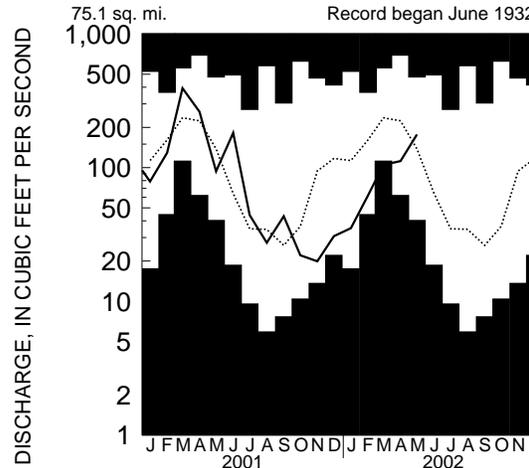
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHBURY



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

← PROVISIONAL DATA →

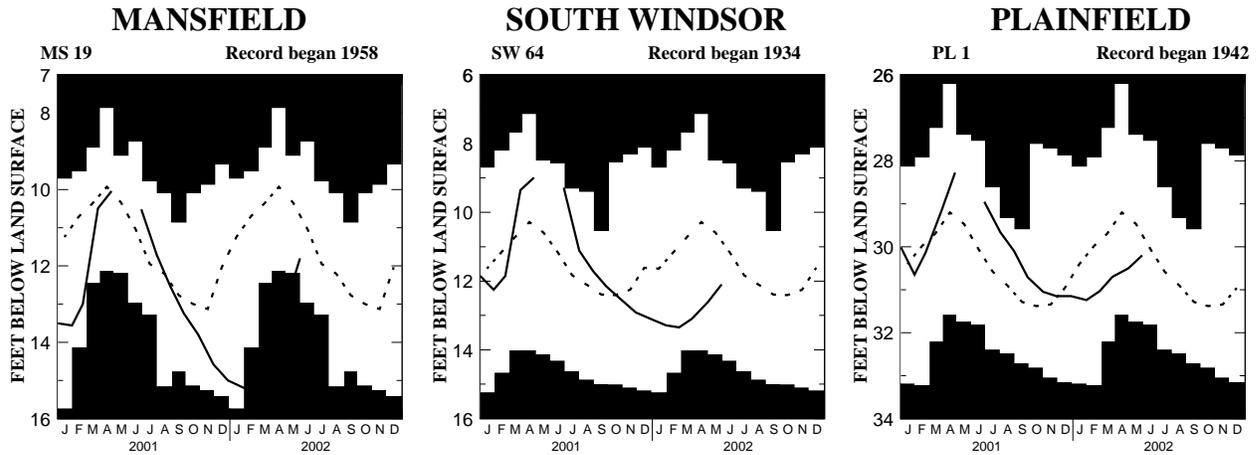
[Station locations shown on front page; - -, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data 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)]

USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2002	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L)/PERCENT SATURATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	5/6	123 / - -	98	15.5	10.8 / 106	6.8	10 K	9 K
01122610 Shetucket R. at South Windham	5/15	3170 / - -	80	11.5	10.9 / 104	6.4	1060	460
01124000 Quinebaug R. at Quinebaug	5/13	214 / 45	196	13.0	9.5 / 91	7.0	212	220
01125100 French R. at North Grosvenordale	5/13	171 / —	218	15.0	9.6 / 97	6.6	196	192
01127000 Quinebaug R. at Jewett City	5/15	4350 / 4	112	12.5	9.9 / 93	6.8	860	400
01184000 Connecticut R. at Thompsonville	SITE NOT SAMPLED THIS MONTH							
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	5/28	74 / - -	313	17.0	8.4 / 89	7.8	60	58
01201487 Still R. at Rt. 7 at Brookfield Center	5/14	488 / —	219	11.0	9.3 / 87	7.4	3900	6300 K
01205500 Housatonic R. at Stevenson	5/29	6000 / 10	216	14.0	9.5 / 106	7.6	33	21
01208049 Naugatuck R. near Waterville	5/2	370 / - -	153	11.0	10.2 / 95	7.4	40 K	16 K
01208500 Naugatuck R. at Beacon Falls	SITE NOT SAMPLED THIS MONTH							
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	5/17	90 / - -	282	15.5	9.9 / 100	7.4	- -	- -

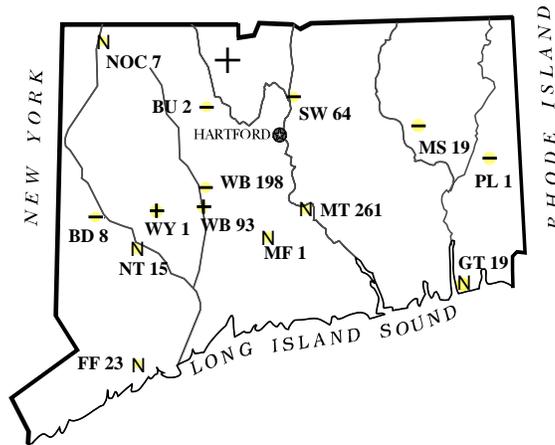
GROUND-WATER LEVELS

(Status of ground-water storage as indicated by 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 2001.
-  Solid line shows current water levels.
-  Dashed line is monthly median for period of record through calendar year 2000.



MASSACHUSETTS



ABOVE NORMAL

Within the highest 25% of record for this month.



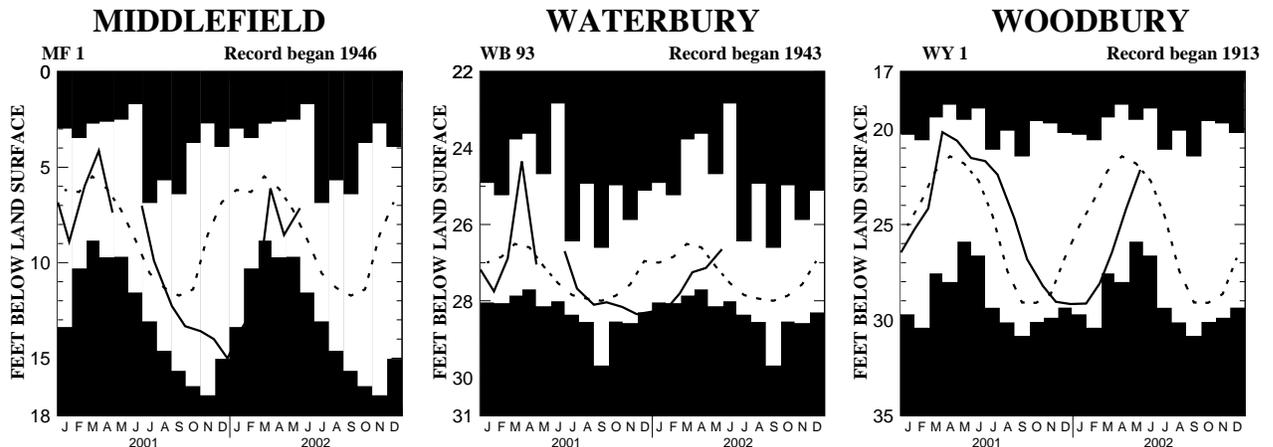
NORMAL RANGE

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



BELOW NORMAL

Within the lowest 25% of record for this month.



GROUND-WATER LEVELS

There were 10 record low and 2 record high ground-water levels recorded during May.

Ground-water levels are in feet below land surface. Maximum and minimum values are from end-of-the month readings and may not be the highest or lowest recorded during the month. Statistics are based on period of record (through calendar year 2001). Ground-water level data are collected by USGS personnel and individual observers.

Because of the current drought, measurements are being made in selected wells on a weekly or twice-a-month basis. In some wells, this causes the column labeled MAY MIN to have a value in May 2002 that is not the same value as reported in the column labeled MAY 2002, which is the last measurement for the month.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	MAY. 2002 (DATE)	APR. 2002	MAY. 2001 ^a	MAY. MAX (YR RECORDED)		MAY. MIN (YR RECORDED)		MAY. MEDIAN			
BD 8 (Brookfield)	31.34	24	32.37		27.60	1989	31.84	1985	29.43		1966
BU 2 (Burlington)	22.99	24	29.44		15.59	1948	22.99	2002	17.12	<	1946
BU 143 (Burlington)	4.11	24	6.73		4.03	2000	4.73	1997	4.12		1996
BU 144 (Burlington)	2.61	24	2.61		2.18	1999	2.61	2002	2.47	<	1996
CL 223 (Clinton)	4.08	30	4.24		3.32	1999	5.64	1992	4.64		1991
CL 224 (Clinton)	19.89	30	21.04		18.53	1998	20.41	1999	19.46		1991
CL 225 (Clinton)	5.90	30	5.93		5.47	1999	6.04	1992	5.75		1991
CO 335 (Colchester)	7.08	30	7.57	7.27	6.77	1998	7.69	1986	7.20		1986
CV 51 (Coventry)	4.12	28	4.42		4.08	1998	4.82	1993	4.43		1992
D 116 (Durham)	1.37	30	0.48	0.94	0.16	1989/00	3.79	1986	0.89		1986
D 117 (Durham)	10.21	30	10.67	10.77	8.07	1996	12.57	1986	10.04		1986
D 119 (Durham)	0.80	30	0.77	0.77	0.11	2000	2.73	1986	1.06		1986
D 120 (Durham)	2.10	30	2.18	3.10	0.58	1989	3.42	1986	2.34		1986
EL 82 (Ellington)	6.06	28	6.05		5.55	2000	6.16	1999	5.83		1987
EL 139 (Ellington)	20.59	28	24.03		19.41	2000	22.61	1999	20.74		1993
EL 140 (Ellington)	12.77	28	14.65		12.00	2000	13.74	1999	12.16		1993
EW 133 (East Windsor)	5.17	28	5.00		1.40	1989	5.29	1992	4.90		1986
EW 134 (East Windsor)	51.86	28	52.20		48.98	1990	51.86	2002	49.72	<	1986
FF 23 (Fairfield)	7.83	29	8.25	7.35	5.03	1989	8.40	1998	7.90		1966
FF 30 (Fairfield)	2.66	29	4.87	1.35	0.95	1996	3.11	1995	2.23		1993
FF 31 (Fairfield)	5.82	29	7.17	6.31	3.75	1996	7.06	1995	5.85		1993
FF 32 (Fairfield)	5.54	29	6.31	5.66	5.05	1996	6.53	1995	6.04		1993
FF 33 (Fairfield)	4.70	29	5.18	4.57	4.30	1996	5.40	1999	4.96		1993
GR 328 (Granby)	10.88	24	13.21		9.48	1998	13.00	1985	10.86		1981
GR 329 (Granby)	4.75	24	6.15		3.78	1998	8.74	1985	4.97		1982
GR 330 (Granby)	2.60	24	2.72		2.27	2000	3.84	1986	3.14		1982
GR 331 (Granby)	8.75	24	9.41		8.75	2002	10.94	1986	9.35	>	1983
GT 19 (Groton)	14.99	31	15.62		11.68	1979	16.17	1999	14.80		1958
HM 445 (Hamden)	17.10	29	20.65		17.10	2002	24.40	1999	23.06	>	1988
HM 446 (Hamden)	3.31	29	3.70		3.15	1998	3.84	1995	3.59		1993
HM 447 (Hamden)	2.60	29	3.15		2.28	1998	3.67	1995	2.64		1993
HM 448 (Hamden)	13.05	29	13.66		12.69	2000	13.91	1995	13.08		1993
HM 449 (Hamden)	16.31	29	17.38		14.97	2000	18.40	1999	17.53		1993
HM 450 (Hamden)	12.60	29	13.20		12.12	1993	13.79	1995	13.12		1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN	
	MAY. 2002 (DATE)	APR. 2002	MAY. 2001	MAY. MAX (YR RECORDED)	MAY. MIN (YR RECORDED)	MAY. MEDIAN					
MB 32 (Marlborough)	3.75	30	5.12	4.40	2.93	2000	5.68	1986	4.21		1986
MB 35 (Marlborough)	7.98	30	10.42	10.23	7.52	2000	10.23	2001	9.06		1993
MB 36 (Marlborough)	3.58	30	2.80	3.41	2.70	1999	4.20	1994	3.21		1993
MF 1 (Middlefield)	7.15	30	8.55	9.52	2.48	1989	9.67	1966	7.36		1946
MS 19 (Mansfield)	11.80	30	13.05		9.10	1964	11.98	2002	10.34	<	1958
MS 44 (Mansfield)	2.24	28	2.33		1.57	1990	5.51	1986	3.32		1982
MS 45 (Mansfield)	12.96	28	13.75		11.23	2000	12.96	2002	11.82	<	1987
MS 46 (Mansfield)	14.57	28	14.70		12.46	1996	14.57	2002	12.86	<	1987
MS 74 (Mansfield)	2.74	28	4.90		0.79	2000	3.98	1993	2.88		1992
MS 75 (Mansfield)	11.66	28	16.23		5.17	2000	11.66	2002	6.72	<	1992
MS 76 (Mansfield)	33.39	28	36.05		28.38	2000	34.99	1998	30.32		1992
MS 77 (Mansfield)	2.91	28	4.38		1.07	2000	3.29	1998	2.56		1993
MT 261 (Middletown)	19.24	30	19.84		18.65	1989	20.53	1986	19.80		1956
NHV 201 (North Haven)	16.54	29	17.18		13.07	1983	17.39	1985	15.06		1975
NOC 7 (North Canaan)	9.37	30	9.43	9.72	8.86	1973	9.95	1964	9.47		1958
NSN 77 (N. Stonington)	9.91	30	10.40		8.57	1998	13.03	1992	11.22		1991
NSN 78 (N. Stonington)	4.55	30	4.14		3.81	1998	4.55	2002	4.04	<	1991
NT 15 (Newtown)	4.65	29	6.17	5.59	0.30	1989	7.69	1985	3.79		1966
PL 1 (Plainfield)	30.20	28	30.50		27.38	1983	31.72	1966	29.47		1942
SB 30 (Southbury)	18.67	24	19.50	18.44	16.97	1996	19.44	1995	18.14		1979
SB 39 (Southbury)	6.25	24	7.01	6.50	6.03	1996	7.10	1992	6.50		1991
SB 41 (Southbury)	46.55	24	47.59	48.97	45.77	1994	48.97	2001	46.70		1991
SB 42 (Southbury)	14.10	24	14.96	15.47	11.95	1996	15.47	2001	13.08		1993
SC 19 (Scotland)	3.72	28	3.36	5.63	2.49	2000	6.07	1993	4.35		1983
SC 20 (Scotland)	3.34	28	5.80	5.76	3.21	1998	6.00	1993	4.88		1983
SC 21 (Scotland)	0.59	28	0.40	0.17	+0.70	2000	0.59	2002	0.00	<	1983
SC 22 (Scotland)	10.97	28	12.01	11.49	10.56	2000	11.86	1999	11.06		1984
SC 23 (Scotland)	2.28	24	1.50	2.27	1.39	2000	2.47	1993	2.20		1983
SM 7 (Salem)	8.42	30	9.48		7.45	1998	11.20	1986	9.30		1979
SW 64 (S. Windsor)	12.10	28	12.61		8.48	1973	14.12	1966	10.66		1934
SY 15 (Salisbury)	15.03	24	17.36	12.12	10.85	1989	15.03	2002	12.46	<	1966
SY 23 (Salisbury)	6.96	24	7.17	8.44	4.95	1989	8.44	2001	6.39		1987
SY 24 (Salisbury)	10.00	24	12.24	12.15	7.82	1989	12.47	1995	9.99		1986
WB 93 (Waterbury)	26.65	29	27.14		24.67	1989	28.13	1983	27.13		1943
WB 198 (Waterbury)	16.90	29	18.78		9.00	1989	18.72	1985	12.55		1943
WY 1 (Woodbury)	22.14	24	24.17	21.52	19.49	1989	28.35	1915	22.10		1913

New records: >, new record high for month; >>, new record high for period of record; <, new record low for month; <<, new record low for period of record; *, median not calculated--number shown is mean; NA, not available; OBS, obstructed; +, water level above ground surface

^a The USGS ground-water network was temporarily discontinued in most wells in May 2001.