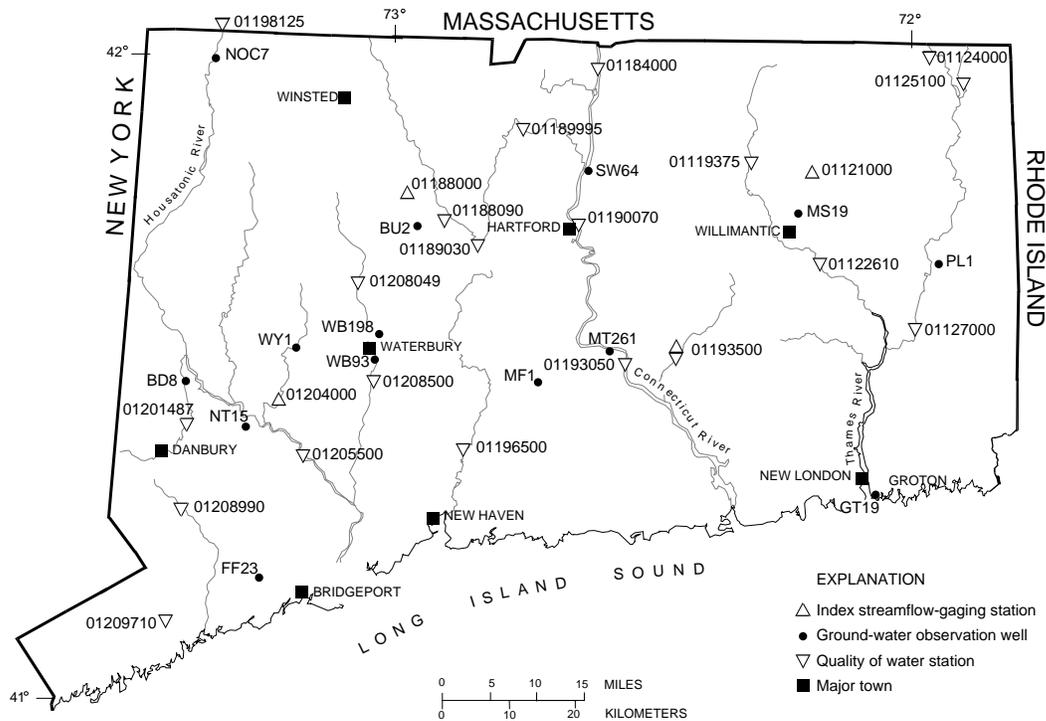


**U.S. Department of the Interior  
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS  
IN CONNECTICUT, APRIL 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](mailto: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
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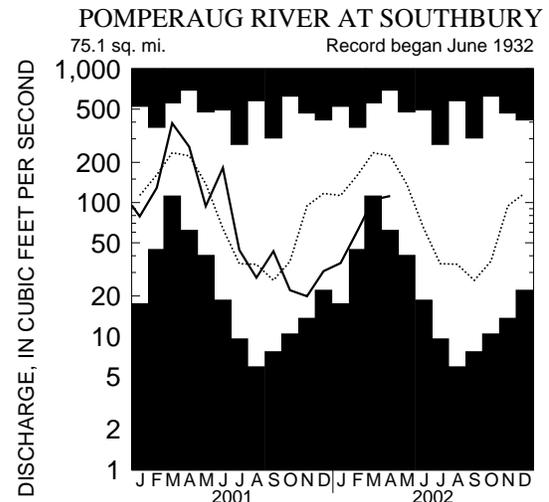
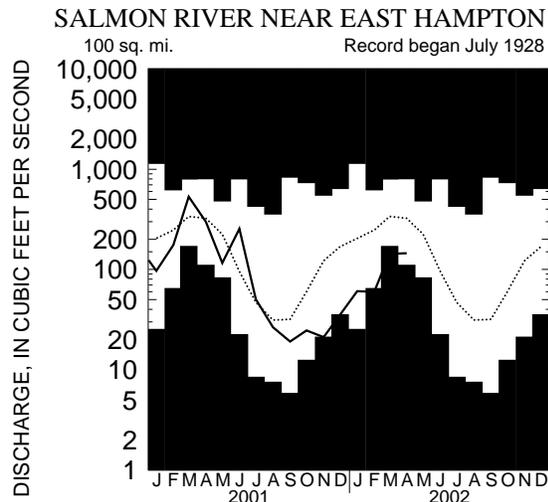
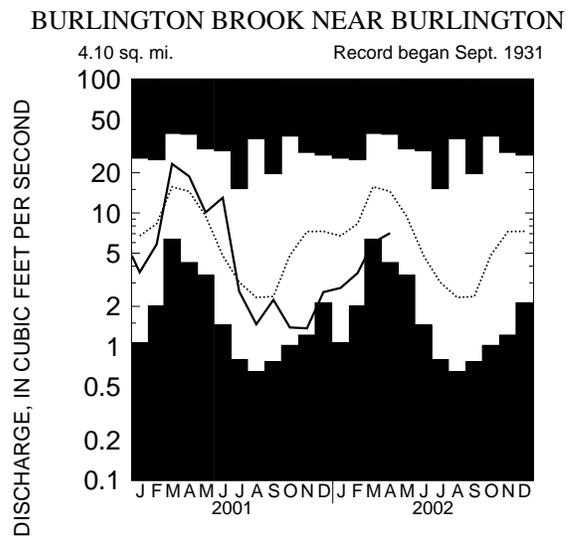
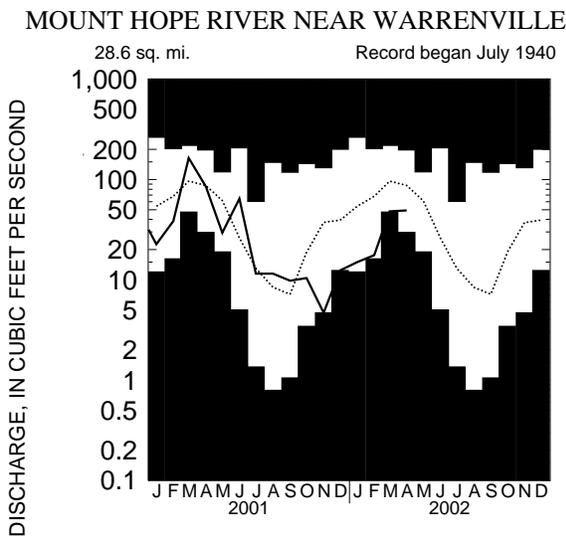
**STREAMFLOW** (measured in cubic feet per second) ➔ PROVISIONAL DATA ➔

Streamflow across the State was in the normal to below-normal range. Flow at Mount Hope River (NE Connecticut) rose to the normal range from the below-normal range. Pomperaug River (SW Connecticut) was in the below-normal range for the fifth consecutive month. Flow at Burlington Brook (NW Connecticut) was in the below-normal range for the sixth consecutive month and flow in the Salmon River (SE Connecticut) was in the below-normal range for the seventh consecutive month. Across the State, mean streamflow for April averaged 46 percent of the April long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	APR. 2002 MEAN	MAR. 2002 MEAN	APR. 2001 MEAN	APR. MAXIMUM VALUE (year recorded)		APR. MINIMUM VALUE (year recorded)		APR. MEDIAN (1961-90)
MT HOPE RIVER (01121000)	49.2	48.2	85.2	197	1983	29.7	1985	87.2
BURLINGTON (01188000)	7.06	5.98	18.8	38.8	1983	4.26	1985	14.5
SALMON RIVER (01193500)	145	143	300	803	1983	110	1985	324
POMPERAUG (01204000)	112	105	262	693	1987	61.9	1985	224

**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)



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


 PROVISIONAL DATA

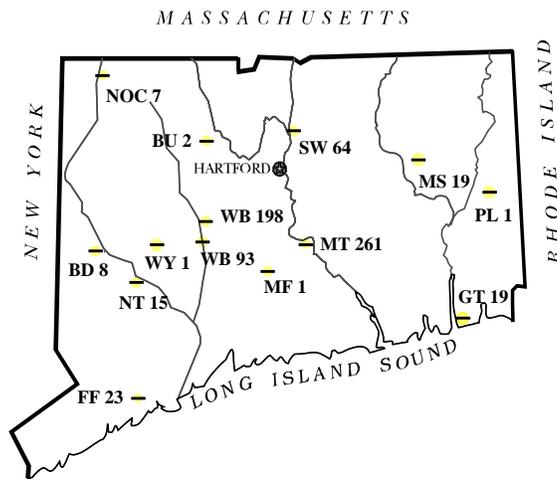
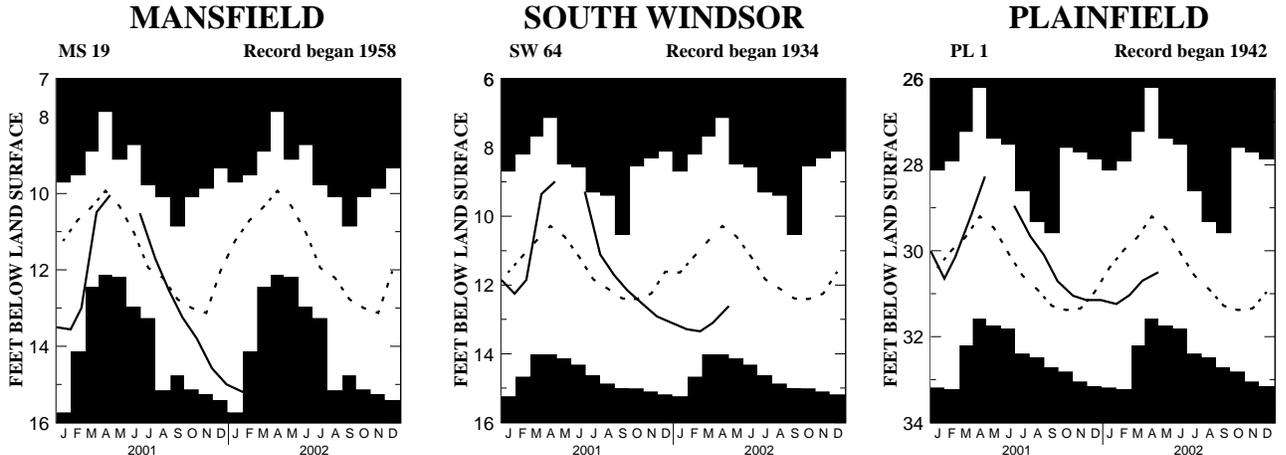
[Station locations shown on front page; --, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data 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	SITE NOT SAMPLED THIS MONTH							
01122610 Shetucket R. at South Windham	4/10	541 /—	111	12.5	10.9 / 101	7.1	230	107
01124000 Quinebaug R. at Quinebaug	SITE NOT SAMPLED THIS MONTH							
01125100 French R. at North Grosvenordale	SITE NOT SAMPLED THIS MONTH							
01127000 Quinebaug R. at Jewett City	SITE NOT SAMPLED THIS MONTH							
01184000 Connecticut R. at Thompsonville	4/9	20900 / 98	106	7.0	12.3 / 101	7.1	30 K	6 K
01188090 Farmington R. at Unionville	4/24	320 / 75	126	8.5	12.9 / 109	7.2	16 K	6 K
01189030 Pequabuck R. at Farmington	4/22	34.2 / --	336	11.5	8.2 / 76	7.2	76	51
01189995 Farmington R. at Tariffville	4/22	465 / 83	163	14.5	8.8 / 87	7.3	96	36
01190070 Connecticut R. at Hartford	4/1	-- / --	117	6.5	13.0 / 87	7.5	700	60
01193050 Connecticut R. at Middle Haddam	4/1	-- / --	125	7.5	12.7 / 106	6.6	5700	177
01193500 Salmon R. near East Hampton	4/10	128 / 48	113	14.0	10.5 / 76	7.2	7	9
01196500 Quinnipiac R. at Wallingford	4/3	134 / 55	356	12.0	10.4 / 96	7.5	3900	420
01198125 Housatonic R. near Ashley Falls, MA	SITE NOT SAMPLED THIS MONTH							
01201487 Still R. at Rt. 7 at Brookfield Center	SITE NOT SAMPLED THIS MONTH							
01205500 Housatonic R. at Stevenson	SITE NOT SAMPLED THIS MONTH							
01208049 Naugatuck R. near Waterville	SITE NOT SAMPLED THIS MONTH							
01208500 Naugatuck R. at Beacon Falls	SITE NOT SAMPLED THIS MONTH							
01208990 Saugatuck R. near Redding	4/30	61.8 /—	209	10.5	11.2 / 102	7.4	204	43
01209710 Norwalk R. near Winnipauk	4/17	32 / --	341	20.0	11.6 / 127	8.5	78	11 K

## 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.



**ABOVE NORMAL**

Within the highest 25% of record for this month.



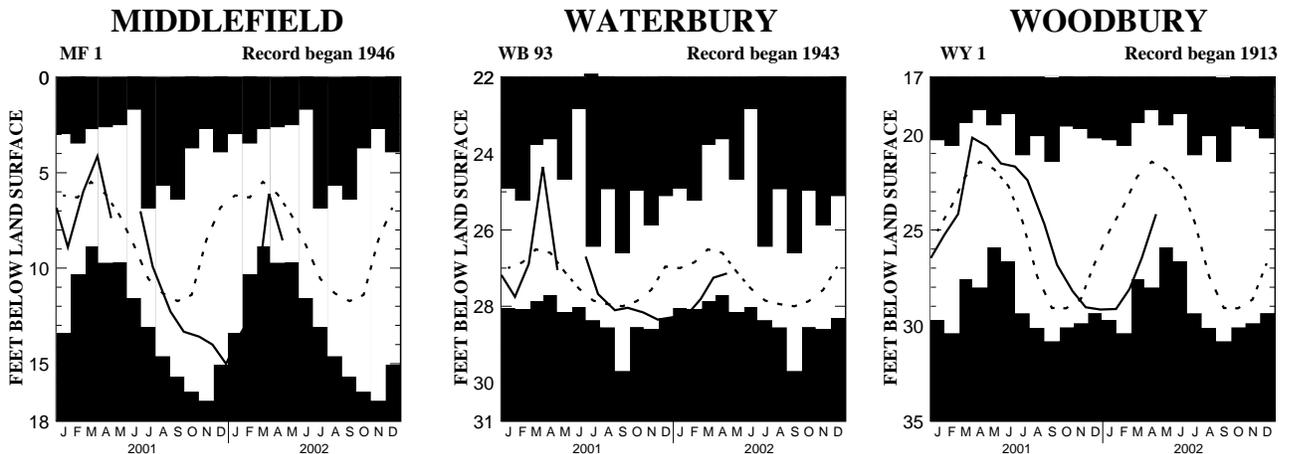
**NORMAL RANGE**

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 36 record low ground-water levels recorded for the month of April.

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 APR MIN to have a reading in April 2002 that is not the same value as reported in the column labeled APR 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
	APR. 2002 (DATE)	MAR. 2002	APR. 2001	APR. MAX (YR RECORDED)		APR. MIN (YR RECORDED)		APR. MEDIAN			
BD 8 (Brookfield)	32.37	24	32.69	28.17	26.33	1983	32.37	2002	28.69	<	1966
BU 2 (Burlington)	29.44	24	36.71	23.40	14.50	1958	29.44	2002	16.70	<	1946
BU 143 (Burlington)	6.73	24	8.80	3.69	3.69	2001	6.73	2002	3.71	<	1996
BU 144 (Burlington)	2.61	24	2.43	2.31	2.31	2001	2.65	1999	2.49		1996
CL 223 (Clinton)	4.24	26	3.40	3.88	2.64	2000	4.24	2002	3.48	<	1991
CL 224 (Clinton)	21.04	26	22.08	18.01	17.87	1994	21.04	2002	18.66	<	1991
CL 225 (Clinton)	5.93	26	5.66	5.81	5.05	1996	6.05	1999	5.51		1991
CO 335 (Colchester)	7.57	26	7.11	6.86	5.85	1993	7.57	2002	6.75	<	1986
CV 51 (Coventry)	4.42	29	5.32	3.83	3.57	2000	4.45	1999	3.98		1992
D 116 (Durham)	0.48	26	0.10	0.92	0.17	2000	1.34	1988	0.42		1986
D 117 (Durham)	10.67	26	9.26	10.51	6.59	1996	11.44	1988	9.68		1986
D 119 (Durham)	0.77	26	0.19	0.69	0.09	2000	1.79	1988	0.43		1986
D 120 (Durham)	2.18	26	1.50	2.22	1.34	2000	2.87	1988	2.08		1986
EL 82 (Ellington)	6.05	29	6.35	5.56	5.17	2000	6.05	2002	5.57	<	1987
EL 139 (Ellington)	24.03	29	DRY	20.61	19.05	1996	24.03	2002	20.19	<	1993
EL 140 (Ellington)	14.65	29	17.84	12.49	11.05	2000	14.65	2002	12.17	<	1993
EW 133 (East Windsor)	5.00	29	5.33	4.57	4.03	1987	5.11	1995	4.80		1986
EW 134 (East Windsor)	52.20	29	52.30	50.23	49.08	1990	52.20	2002	49.81	<	1986
FF 23 (Fairfield)	8.25	25	7.87	7.96	5.32	1983	8.81	1998	7.66		1966
FF 30 (Fairfield)	4.87	25	6.60	2.26	1.03	2000	4.87	2002	1.60	<	1993
FF 31 (Fairfield)	7.17	25	6.64	7.04	4.18	1996	7.17	2002	5.12	<	1993
FF 32 (Fairfield)	6.31	25	6.18	5.95	4.70	1994	6.31	2002	5.52	<	1993
FF 33 (Fairfield)	5.18	25	4.51	4.76	4.30	2000	5.18	2002	4.66	<	1993
GR 328 (Granby)	13.21	24	16.67	8.20	4.81	1983	13.21	2002	8.75	<	1981
GR 329 (Granby)	6.15	24	6.15	4.19	1.48	1983	7.63	1985	4.24		1982
GR 330 (Granby)	2.72	24	2.71	2.47	1.60	1983	3.70	1985	3.04		1982
GR 331 (Granby)	9.41	24	9.26	8.92	4.41	1983	10.12	1995	8.57		1983
GT 19 (Groton)	15.62	26	15.30	14.27	9.47	1983	15.90	1963	13.82		1958
HM 445 (Hamden)	20.65	25	24.60	18.61	16.06	1996	22.25	1999	18.06		1988
HM 446 (Hamden)	3.70	25	2.70	3.21	2.51	2000	3.70	2002	3.11	<	1993
HM 447 (Hamden)	3.15	25	2.59	2.37	1.63	2000	3.15	2002	2.00	<	1993
HM 448 (Hamden)	13.66	25	13.40	12.84	12.27	1996	13.66	2002	12.53	<	1993
HM 449 (Hamden)	17.38	25	12.75	16.91	14.08	1993	17.48	1999	14.96		1993
HM 450 (Hamden)	13.20	25	8.90	13.37	12.27	2000	13.37	2001	12.70		1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	APR. 2002 (DATE)	MAR. 2002	APR. 2001	APR. MAX (YR RECORDED)	APR. MIN (YR RECORDED)	APR. MEDIAN					
MB 32 (Marlborough)	5.12	26	6.70	2.93	1.73	1993	5.12	2002	2.65	<	1986
MB 35 (Marlborough)	10.42	26	13.80	7.78	5.41	2000	10.42	2002	7.23	<	1993
MB 36 (Marlborough)	2.80	26	2.52	3.36	2.58	2000	3.36	2001	2.86		1993
MF 1 (Middlefield)	8.55	26	6.11	7.38	2.59	1983	9.69	1966	6.13		1946
MS 19 (Mansfield)	13.05	29	14.60	10.04	7.85	1983	13.05	2002	10.00	<	1958
MS 44 (Mansfield)	2.33	29	4.39	3.01	0.48	1987	4.45	1985	2.19		1982
MS 45 (Mansfield)	13.75	29	13.84	11.38	10.40	1993	13.75	2002	10.99	<	1987
MS 46 (Mansfield)	14.70	29	15.06	12.58	11.88	1993	14.70	2002	12.30	<	1987
MS 74 (Mansfield)	4.90	29	7.50	2.36	0.10	1993	4.90	2002	1.30	<	1992
MS 75 (Mansfield)	16.23	29	19.08	4.85	4.12	1993	16.23	2002	5.26	<	1992
MS 76 (Mansfield)	36.05	29	35.22	27.75	27.75	2001	36.05	2002	28.22	<	1992
MS 77 (Mansfield)	4.38	29	6.80	2.59	0.48	2000	4.38	2002	1.70	<	1993
MT 261 (Middletown)	19.84	26	20.88	18.99	17.16	1983	21.50	1975	19.16		1956
NHV 201 (North Haven)	17.18	25	17.58	14.26	11.69	1983	17.32	1985	14.81		1975
NOC 7 (North Canaan)	9.43	26	9.31	9.06	7.37	1986	9.74	1968	9.15		1958
NSN 77 (N. Stonington)	10.40	26	10.16	9.51	7.66	2000	11.56	1992	9.64		1991
NSN 78 (N. Stonington)	4.14	26	3.80	4.47	1.93	1994	4.47	2001	3.77		1991
NT 15 (Newtown)	6.17	25	6.40	2.50	0.70	1983	6.17	2002	3.08	<	1966
PL 1 (Plainfield)	30.50	29	30.70	28.27	26.19	1983	31.57	1966	29.19		1942
SB 30 (Southbury)	19.50	24	20.31	17.51	15.86	1996	19.50	2002	17.18	<	1979
SB 39 (Southbury)	7.01	24	6.89	6.29	4.72	1993	7.81	1995	5.99		1991
SB 41 (Southbury)	47.59	24	47.50	47.92	45.30	1997	48.16	1999	46.44		1991
SB 42 (Southbury)	14.96	26	15.21	13.96	12.09	1994	14.96	2002	12.33	<	1993
SC 19 (Scotland)	3.36	29	4.81	4.05	1.93	2000	4.60	1999	3.13		1983
SC 20 (Scotland)	5.80	29	7.82	2.85	0.16	2000	5.80	2002	3.23	<	1983
SC 21 (Scotland)	0.40	29	1.24	+0.04	0.69	1996	0.53	1985	+0.22		1983
SC 22 (Scotland)	12.01	29	12.96	10.01	8.32	2000	12.01	2002	10.29	<	1984
SC 23 (Scotland)	1.50	29	2.29	2.17	1.44	1996	2.26	1985	1.84		1983
SM 7 (Salem)	9.48	26	10.05	6.08	4.88	1983	10.63	1985	8.21		1979
SW 64 (S. Windsor)	12.61	29	13.10	8.99	7.12	1983	13.99	1966	10.12		1934
SY 15 (Salisbury)	17.36	24	17.65	11.40	9.76	1993	17.36	2002	12.33	<	1966
SY 23 (Salisbury)	7.17	24	10.55	6.16	4.62	1993	7.17	2002	5.54	<	1987
SY 24 (Salisbury)	12.24	24	13.47	8.95	5.68	1994	12.24	2002	9.41	<	1986
WB 93 (Waterbury)	27.14	25	27.25	27.05	23.61	1983	27.69	1985	26.60		1943
WB 198 (Waterbury)	18.78	25	20.78	12.41	5.79	1983	18.78	2002	11.89	<	1943
WY 1 (Woodbury)	24.17	24	26.47	20.61	18.70	1983	26.49	1980	21.60		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