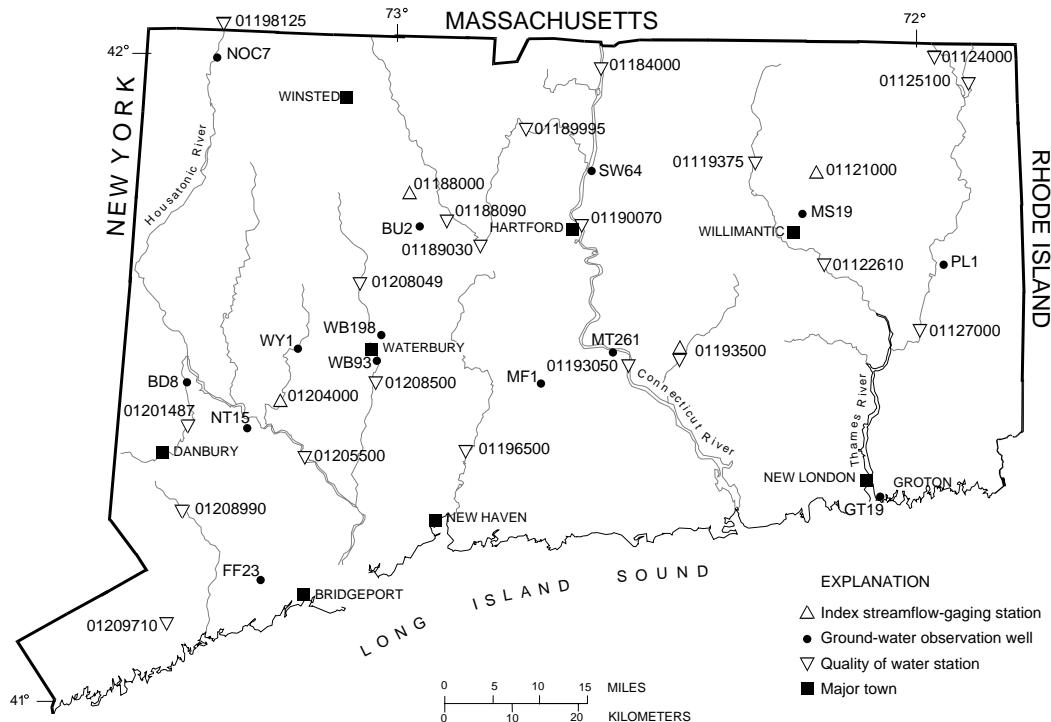


# U.S. Department of the Interior U.S. Geological Survey



## WATER-RESOURCES CONDITIONS IN CONNECTICUT, MARCH 2001

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 ←

Streamflows in March were in the above-normal range for the entire State. Flow in Mount Hope River (NE Connecticut) increased to the above-normal range after being in the below-normal range for 2 consecutive months. Flows in Burlington Brook (NW Connecticut), Salmon River (SE Connecticut) and Pomperaug River (SW Connecticut) increased to the above-normal range after being in the normal range for 1 month. Across the State, mean streamflow for March averaged 158 percent of the March long-term median value.

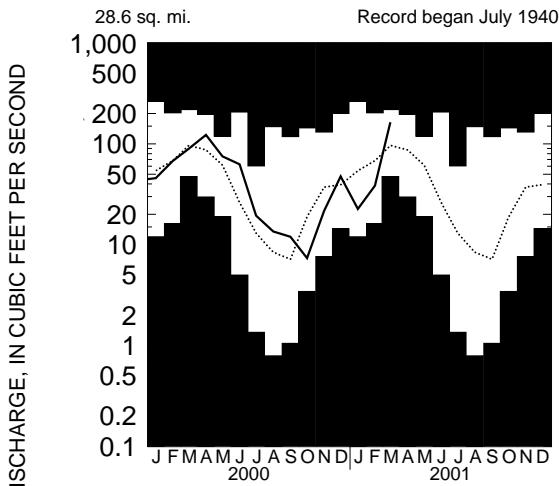
USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MARCH 2001 MEAN	FEB. 2001 MEAN	MARCH 2000 MEAN	MARCH MAXIMUM VALUE (year recorded)	MARCH MINIMUM VALUE (year recorded)	MARCH MEDIAN (1961-90)
MT HOPE RIVER (01121000)	164	38.5	89.6	219	1972	96.5
BURLINGTON (01188000)	23.3	5.84	13.8	39.4	1983	15.7
SALMON RIVER (01193500)	532	175	291	797	1936	338
POMPERAUG (01204000)	393	129	217	557	1936	236

**MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS**

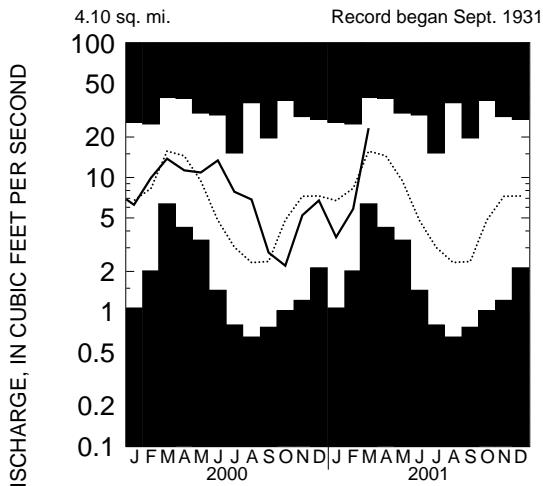
Shaded areas on graphs show highest and lowest monthly mean discharge of record.

— Current record      ..... Median (1961-1990)

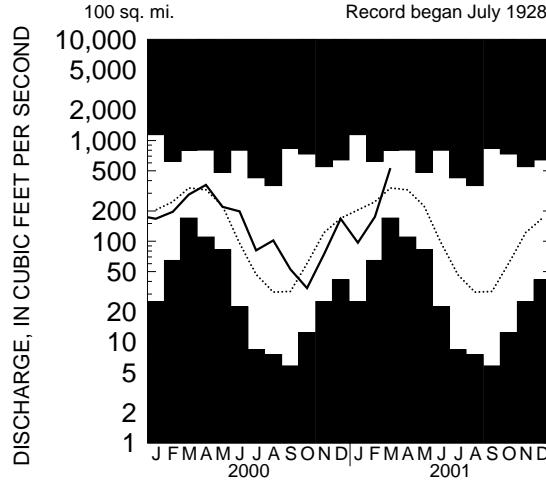
MOUNT HOPE RIVER NEAR WARRENVILLE



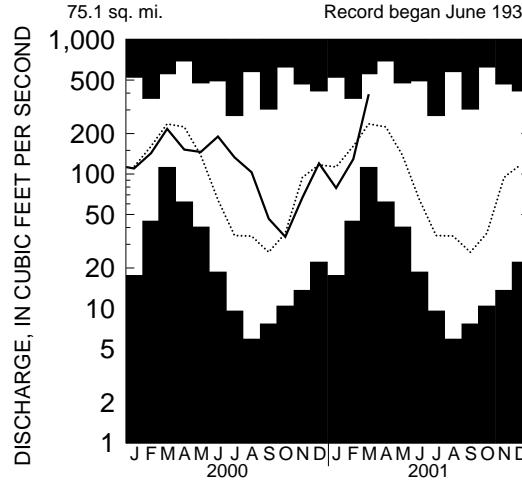
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHURY



# 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)]

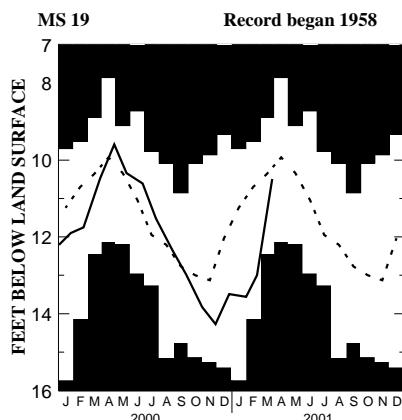
USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2001	STREAMFLOW % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L)	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	3/20	97.7/--	106	5.5	13.1/103	6.85	K1	K11
01122610 Shetucket R. at South Windham	3/14	1,380/--	139	2.5	13.8/103	7.2	K96	216
01124000 Quinebaug R. at Quinebaug	3/12	169/51	341	2.8	14.2/106	7.3	—	K11
01125100 French R. at North Grosvenordale	3/12	—	340	3.4	14.2/107	7.4	K87	K21
01127000 Quinebaug R. at Jewett City	3/14	2,830/12	141	3.5	13.1/102	7.3	208	2,100
01184000 Connecticut R. at Thompsonville	3/2	7,760/68	164	1.9	14.7/108	7.6	—	—
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					SITE NOT SAMPLED THIS MONTH			
01201487 Still R. at Rt. 7 at Brookfield Center	3/8	94/--	664	1.9	13.7/100	7.9	1,180	K67
01205500 Housatonic R. at Stevenson					SITE NOT SAMPLED THIS MONTH			
01208049 Naugatuck R. near Waterville	3/29	450/--	149	3.9	13.4/102	7.5	K173	K300
01208500 Naugatuck R. at Beacon Falls	3/28	1,090/12	216	5.9	13.2/104	7.2	59	22
01208990 Saugatuck R. near Redding					SITE NOT SAMPLED THIS MONTH			
01209710 Norwalk R. near Winnipauk	3/16	162/--	306	4.8	13.2/104	8.1	—	—

## GROUND-WATER LEVELS

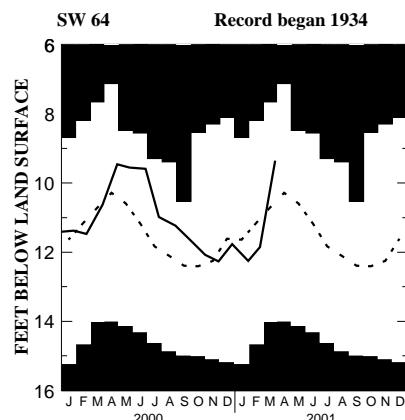
(Status of ground-water storage as indicated by water level changes in observation wells,  
as shown on hydrographs)

- Shaded area on graphs show highest and lowest water levels of record through calendar year 2000.
- Solid line shows current water levels.
- Dashed line is monthly median for period of record through calendar year 2000.

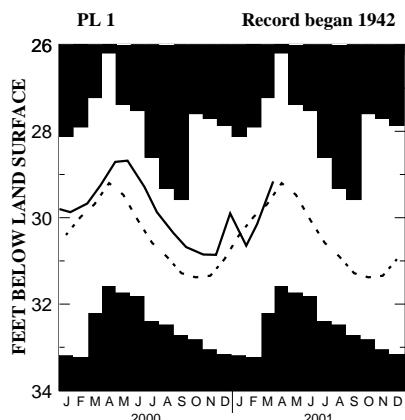
### MANSFIELD



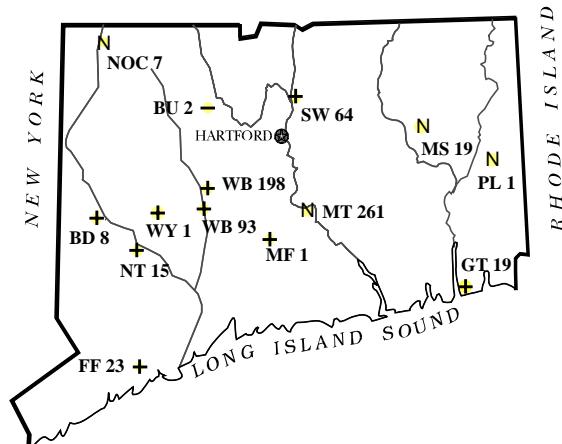
### SOUTH WINDSOR



### PLAINFIELD



### 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.

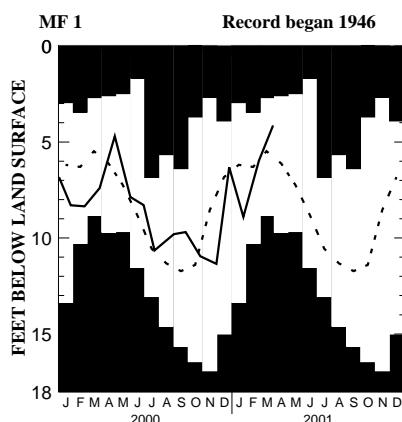


### BELOW NORMAL

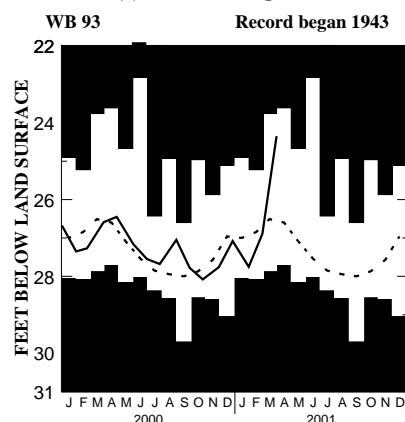
Within the lowest 25%  
of record for this month.



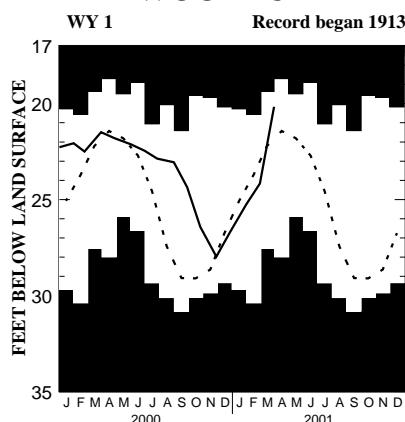
### MIDDLEFIELD



### WATERBURY



### WOODBURY



**GROUND-WATER LEVELS**

Fifteen high and two low ground-water levels were recorded for the month of March.

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 ever recorded during the month. Statistics are based on period of record (through calendar year 2000). Ground-water level data are collected by USGS personnel and individual observers.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RECORD	YR RECORD BEGAN
	MARCH 2001 (DATE)	FEB. 2001	MARCH 2000	MARCH MAX (YR RECORDED)	MARCH MIN (YR RECORDED)	MARCH MEDIAN				
BD 8 (Brookfield)	28.49	30	30.51	29.83	27.40	1972	31.69	1985	29.44	
BU 2 (Burlington)	27.37	27	30.39	24.56	13.71	1953	28.65	1985	18.41	
BU 143 (Burlington)	3.51	27	6.80	3.55	3.10	1999	4.43	1997	NA	1996
BU 144 (Burlington)	2.29	27	2.62	2.55	2.29	2001	3.59	1997	NA	> 1996
CL 223 (Clinton)	2.63	28	3.17	3.03	1.37	1994	4.13	1995	2.88	
CL 224 (Clinton)	17.09	28	20.25	19.75	16.93	1994	20.15	1992	18.91	
CL 225 (Clinton)	5.18	28	5.87	5.67	4.09	1994	5.67	1995/97/2000	5.46	1991
CO 335 (Colchester)	6.30	29	6.61	6.87	4.78	1993	7.10	1989	6.59	
CV 51 (Coventry)	3.18	27	4.46	4.15	2.81	1994	4.37	1995	3.97	1992
D 116 (Durham)	0.05	29	0.08	0.33	0.04	1993	1.34	1990	0.32	1986
D 117 (Durham)	9.10	29	9.34	9.85	7.88	1997	10.91	1988	9.69	
D 119 (Durham)	0.02	29	0.05	0.23	0.02	2001	1.16	1988	0.34	> 1986
D 120 (Durham)	1.13	29	1.25	1.97	1.15	1993	2.61	1988	2.07	
EL 82 (Ellington)	4.87	27	4.90	5.59	4.87	2001	5.80	1995	5.60	>,>>
EL 139 (Ellington)	15.12	27	21.58	19.65	15.12	2001	20.79	1995	19.72	>,>>
EL 140 (Ellington)	10.61	27	13.10	11.86	10.61	2001	12.46	1997	11.86	> 1993
EW 133 (East Windsor)	3.84	27	5.03	4.78	2.67	1993	5.13	1989	4.68	
EW 134 (East Windsor)	50.93	27	51.49	50.93	49.19	1990	51.34	1989	50.50	
FF 23 (Fairfield)	7.11	30	7.48	7.70	5.74	1978	8.19	1981	7.57	
FF 30 (Fairfield)	1.02	30	1.06	1.12	0.47	1994	2.31	1995	1.15	1993
FF 31 (Fairfield)	4.81	30	5.43	5.41	1.59	1994	6.05	1995	4.20	1993
FF 32 (Fairfield)	5.07	30	frozen	5.51	4.90	1994	7.75	1997	5.46	1993
FF 33 (Fairfield)	4.25	30	4.27	4.67	3.60	1994	5.03	1995	4.64	1993
GR 328 (Granby)	6.35	27	15.07	8.58	5.69	1994	12.82	1989	8.57	
GR 329 (Granby)	1.08	27	6.62	3.49	1.08	2001	7.23	1989	3.64	> 1982
GR 330 (Granby)	1.95	27	2.78	2.26	1.50	1983	3.30	1995	2.58	
GR 331 (Granby)	5.71	27	10.29	8.39	5.71	2001	9.44	1989	8.27	> 1983
GT 19 (Groton)	11.73	25	14.87	13.57	11.32	1980	15.67	1992	14.12	
HM 445 (Hamden)	14.67	30	16.72	17.14	14.67	2001	21.11	1995	17.63	> 1988
HM 446 (Hamden)	1.16	30	2.95	2.90	1.16	2001	3.36	1995	2.89	> 1993
HM 447 (Hamden)	0.62	30	2.31	1.90	0.62	2001	2.87	1995	NA	>,>>
HM 448 (Hamden)	11.39	30	12.82	12.51	11.39	2001	13.34	1995	NA	> 1993
HM 449 (Hamden)	13.65	30	14.16	15.53	13.45	1994	16.62	1995	NA	
HM 450 (Hamden)	11.09	30	11.15	13.06	10.82	1994	13.06	2000	NA	1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN
	MARCH 2001 (DATE)	FEB. 2001	MARCH 2000	MARCH MAX (YR RECORDED)	MARCH MIN (YR RECORDED)	MARCH MEDIAN				
MB 32 (Marlborough)	1.38	29	3.58	2.75	0.30	1994	5.23	1997	2.48	1986
MB 35 (Marlborough)	5.11	29	10.12	6.92	3.67	1994	8.19	1997	6.56	1993
MB 36 (Marlborough)	1.98	29	2.04	2.98	1.74	1994	3.24	1995	2.74	1993
MF 1 (Middlefield)	4.14	29	5.98	7.41	2.69	1978	8.82	1963	5.40	1946
MS 19 (Mansfield)	10.49	27	13.00	10.48	8.89	1972	12.43	1969	10.28	1958
MS 44 (Mansfield)	0.50	27	1.19	1.01	0.08	1994	3.72	1993	1.51	1982
MS 45 (Mansfield)	10.26	27	12.90	11.72	9.00	1993	11.72	2000	10.77	1987
MS 46 (Mansfield)	12.15	27	13.82	13.01	10.72	1993	13.01	2000	12.30	1987
MS 74 (Mansfield)	0.56	27	2.60	0.60	+0.14	1993	1.49	1995	0.60	1992
MS 75 (Mansfield)	5.83	27	13.49	5.83	4.01	1993	5.83	2000/01	5.15	< 1992
MS 76 (Mansfield)	28.63	27	31.35	31.10	28.63	2001	34.99	1999	29.61	> 1992
MS 77 (Mansfield)	0.65	27	2.88	0.50	0.31	1994	1.51	1996	0.83	1993
MT 261 (Middletown)	18.38	29	19.66	19.04	17.39	1977	20.70	1990	19.25	1956
NHV 201 (North Haven)	14.47	30	15.99	15.78	13.27	1979	16.90	1985	15.23	1975
NHV 202 (North Haven)	36.59	30	43.55	47.37	34.60	1980	58.95	1985	47.27	1975
NOC 7 (North Canaan)	8.69	31	9.30	9.24	7.60	1963	9.85	1983	9.15	1958
NSN 77 (N. Stonington)	6.80	27	10.12	8.92	6.30	1993	11.04	1992	9.47	1991
NSN 78 (N. Stonington)	3.97	27	4.21	4.10	2.92	1993	4.10	2000	3.72	1991
NT 15 (Newtown)	1.11	30	4.05	3.53	0.75	1983	5.78	1989	3.23	1966
PL 1 (Plainfield)	29.16	28	30.15	29.25	27.78	1953	31.73	1966	29.64	1942
SB 30 (Southbury)	16.08	30	18.63	18.04	15.94	1998	18.77	1992	17.97	1979
SB 39 (Southbury)	4.53	30	6.44	5.88	3.20	1993	5.91	1997	5.46	1991
SB 41 (Southbury)	46.86	30	47.50	46.85	45.05	1993	46.86	2001	46.24	< 1991
SB 42 (Southbury)	frozen	30	12.30	11.55	10.82	1994	12.85	1995	11.83	1993
SC 19 (Scotland)	2.00	28	3.02	1.95	0.98	1994	3.86	1989	2.03	1983
SC 20 (Scotland)	+0.18	28	6.96	3.55	+0.43	1994	4.95	1989	2.60	1983
SC 21 (Scotland)	+0.15	28	1.05	+0.08	+1.25	1994	0.32	1989	+0.36	1983
SC 22 (Scotland)	8.27	28	12.40	11.01	6.62	1994	12.02	1989	10.86	1984
SC 23 (Scotland)	1.57	28	2.14	1.44	0.39	1994	2.15	1995	1.44	1983
SM 7 (Salem)	6.45	28	8.54	8.10	6.45	1999/2001	9.77	1985	8.28	> 1979
SW 64 (S. Windsor)	9.35	27	11.85	10.63	7.65	1936	14.00	1966	10.69	1934
SY 15 (Salisbury)	frozen	26	frozen	12.49	8.14	1993	14.08	1989	12.77	1966
SY 23 (Salisbury)	3.89	26	5.94	5.15	3.89	2001	8.63	1989	5.13	> 1987
SY 24 (Salisbury)	8.48	26	12.09	8.74	8.48	2001	14.11	1989	10.31	> 1986
WB 93 (Waterbury)	24.35	30	26.89	26.59	23.09	1980	27.85	1997	26.50	1943
WB 198 (Waterbury)	10.90	30	16.65	12.88	5.82	1948	18.70	1985	11.92	1943
WY 1 (Woodbury)	20.17	30	24.16	21.49	19.37	1983	27.20	1966	22.29	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