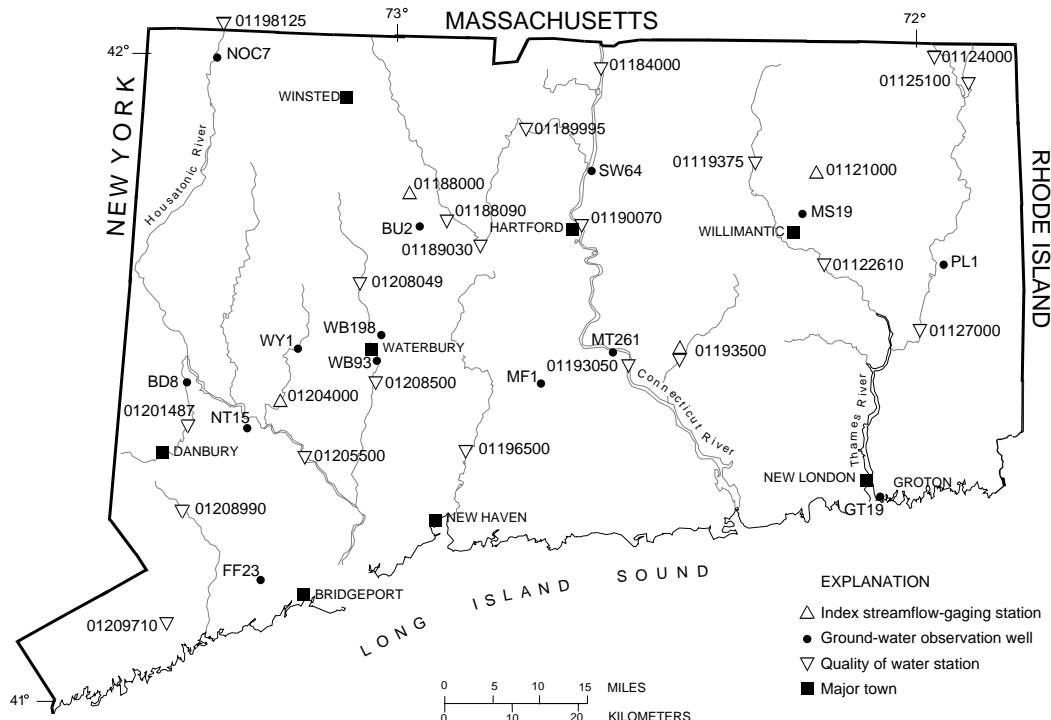


# U.S. Department of the Interior U.S. Geological Survey



## WATER-RESOURCES CONDITIONS IN CONNECTICUT, MARCH 2003

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

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**STREAMFLOW** (measured in cubic feet per second)

→ PROVISIONAL DATA ←

Streamflow across the State was in the normal range. Flow at Burlington Brook (NW Connecticut), and Salmon River (SE Connecticut) rose to the normal range from the below-normal range. Flows at Mount Hope River (NE Connecticut), and Pomperaug River (SW Connecticut) remained in the normal range for the fifth consecutive month. Across the State, mean streamflow for March averaged 108 percent of the March long-term median values.

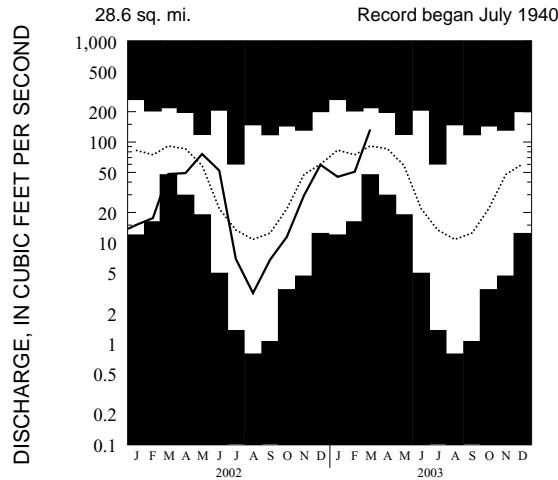
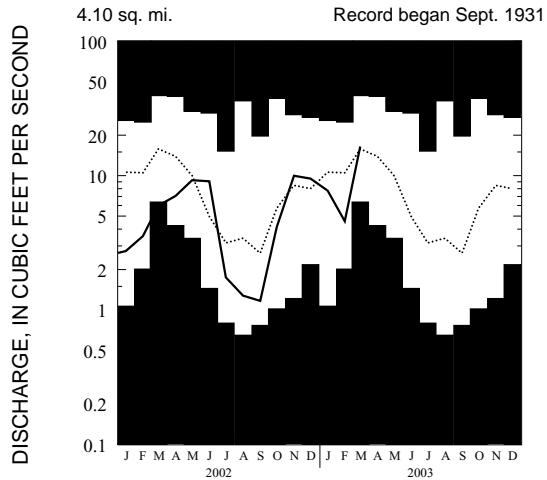
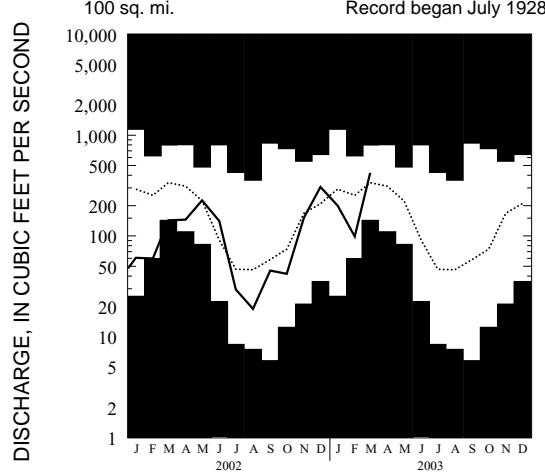
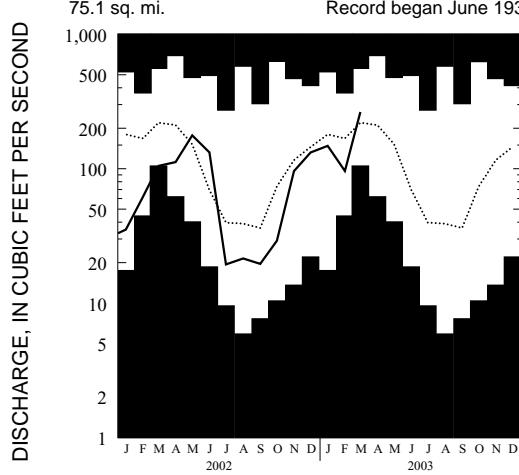
USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MARCH 2003 MEAN	FEB. 2003 MEAN	MARCH 2002 MEAN	MARCH MAXIMUM VALUE (year recorded)	MARCH MINIMUM VALUE (year recorded)	MARCH MEDIAN (1971-2000)
MT HOPE RIVER (01121000)	133	50.8	48.2	219	1972	91.3
BURLINGTON (01188000)	16.5	4.58	5.98	39.4	1983	15.8
SALMON RIVER (01193500)	423	99.0	143	797	1936	334
POMPERAUG (01204000)	264	96.1	105	557	1936	220

**MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS**

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

— Current record

..... Median (1971-2000)

**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 ←

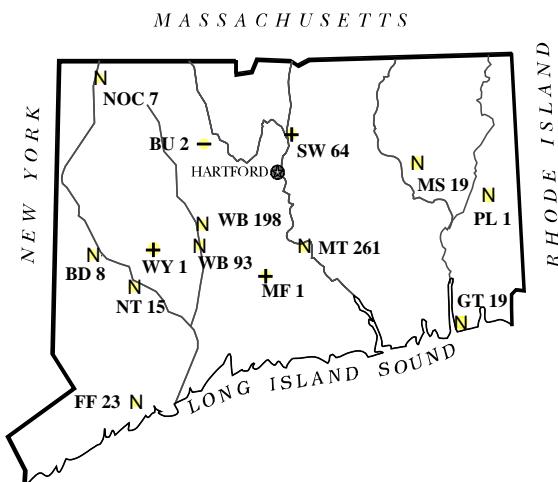
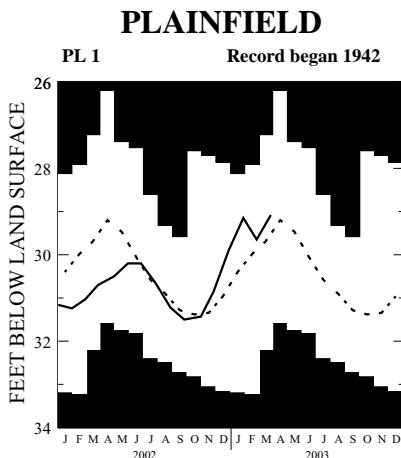
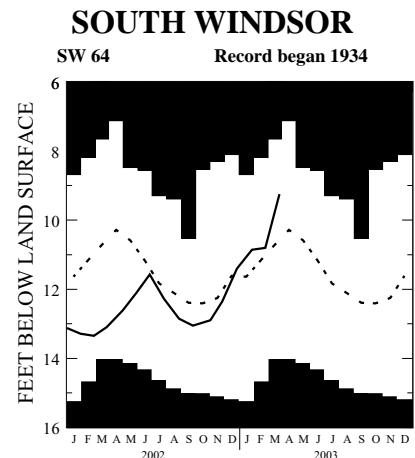
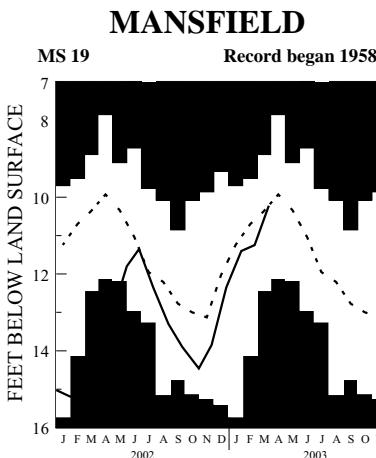
[Station locations shown on front page; --, not applicable; —, not available; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using 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 2003	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)	E. COLI (COL/100 mL)
01119375 Willimantic R. at Merrow	3/10	246 / --	134	0.5	14.1 / 98	6.8	23	5 K
01122610 Shetucket R. at South Windham	3/11	949 / --	126	1.0	14.9 / 104	6.9	40	27
01124000 Quinebaug R. at Quinebaug	3/13	288 / 34	226	1.0	14.7 / 104	6.7	213 K	285 K
01125100 French R. at North Grosvenordale	3/13	230 / --	290	2.0	13.9 / 101	7.0	60	62
01127000 Quinebaug R. at Jewett City	3/11	1870 / 23	141	1.5	14.5 / 102	7.5	45 K	34
01184000 Connecticut R. at Thompsonville	3/27	77,200 / <1	100	3.5	13.7 / 104	7.4	--	--
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	3/4	932 / --	392	0.0	14.2 / 100	7.9	57 K	32
01201487 Still R. at Rt. 7 at Brookfield Center	3/3	240 / --	362	0.5	15.2 / 106	7.1	265 K	104
01205500 Housatonic R. at Stevenson					SITE NOT SAMPLED THIS MONTH			
01208049 Naugatuck R. near Waterville	3/5	301 / --	210	0.5	14.4 / 102	6.4	160	108
01208500 Naugatuck R. at Beacon Falls	3/6	734/ 20	276	1.5	13.7 / 98	7.7	1080	1450
01208990 Saugatuck R. near Redding					SITE NOT SAMPLED THIS MONTH			
01209710 Norwalk R. near Winnipauk	3/31	144 / --	278	8.0	12.8 / 107	8.0	--	--

## 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 2002.
- 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.



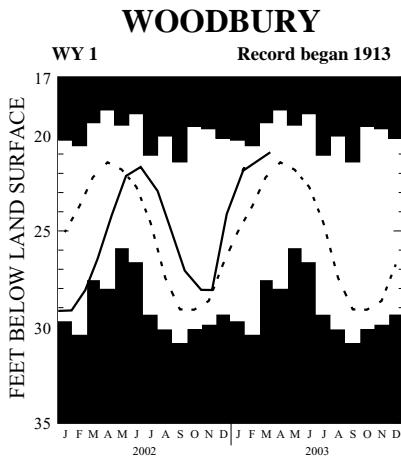
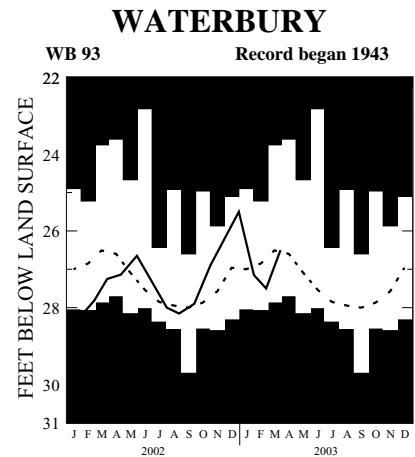
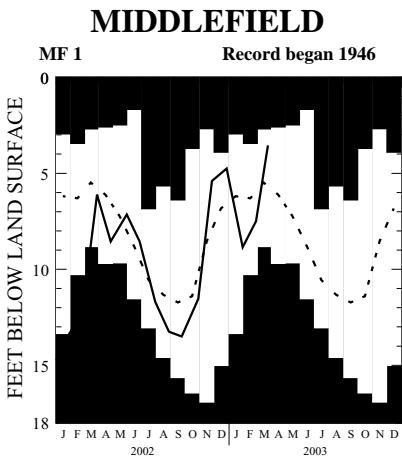
### NORMAL RANGE

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**

Five monthly high ground-water levels were recorded during March 2003. One record high for the period of record also was recorded.

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 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 RE-CORD	YEAR RECORD BEGAN
	MARCH 2003 (DATE)	FEB. 2003	MARCH 2002	MARCH MAX (YR RECORDED)	MARCH MIN (YR RECORDED)	MAR. MEDIAN			
BD 8 (Brookfield)	29.25	25	30.41	32.69	27.40	1972	32.69	2002	29.43
BU 2 (Burlington)	20.59	25	21.44	36.71	13.71	1953	36.71	2002	18.42
BU 143 (Burlington)	3.16	25	4.50	8.80	3.10	1999	8.80	2002	3.53
BU 144 (Burlington)	2.22	25	2.31	2.43	2.22	2003	3.59	1997	2.50 > 1996
CL 223 (Clinton)	2.49	24	3.22	3.40	1.37	1994	4.13	1995	2.82
CL 224 (Clinton)	18.83	24	20.02	22.08	16.93	1994	22.08	2002	18.88
CL 225 (Clinton)	5.55	24	5.71	5.66	4.09	1994	5.67	95/97/00	5.40
CO 335 (Colchester)	5.30	24	6.54	7.11	4.78	1993	7.11	2002	6.55
CV 51 (Coventry)	3.45	26	3.64	5.32	2.81	1994	5.32	2002	3.77
D 116 (Durham)	0.11	24	0.24	0.10	0.04	1993	1.34	1990	0.31
D 117 (Durham)	9.07	24	10.05	9.26	7.88	1997	10.91	1988	9.66
D 119 (Durham)	0.00	24	frozen	0.19	0.00	2003	1.16	1988	0.33 > 1986
D 120 (Durham)	1.33	24	frozen	1.50	1.13	2001	2.61	1988	2.06
EL 82 (Ellington)	5.08	26	5.17	6.35	4.87	2001	6.35	2002	5.59
EL 139 (Ellington)	16.74	26	21.85	DRY	15.12	2001	DRY	2002	19.65
EL 140 (Ellington)	10.75	26	11.91	17.84	10.61	2001	17.84	2002	11.85
EW 133 (East Windsor)	3.86	26	4.01	5.33	2.67	1993	5.33	2002	4.62
EW 134 (East Windsor)	50.60	26	51.20	52.30	49.19	1990	52.30	2002	50.51
FF 23 (Fairfield)	7.35	28	7.38	7.87	5.74	1978	8.19	1981	7.56
FF 30 (Fairfield)	1.71	28	2.15	6.60	0.47	1994	6.60	2002	1.12
FF 31 (Fairfield)	5.07	28	5.98	6.64	1.59	1994	6.64	2002	4.25
FF 32 (Fairfield)	5.06	28	frozen	6.18	4.90	1994	7.75	1997	5.40
FF 33 (Fairfield)	4.32	28	4.44	4.51	3.60	1994	5.03	1995	4.63
GR 328 (Granby)	5.80	25	10.77	16.67	5.69	1994	16.67	2002	8.57
GR 329 (Granby)	2.06	25	4.24	6.15	1.08	2001	7.23	1989	3.57
GR 330 (Granby)	1.82	25	2.43	2.71	1.82	2003	3.30	1995	2.56 > 1982
GR 331 (Granby)	6.10	25	8.80	9.26	5.71	2001	9.94	1989	8.26
GT 19 (Groton)	14.52	30	14.43	15.30	11.32	1980	15.67	1992	14.11
GW 21 (Greenwich)	17.89	25							2003
GW-22 (Greenwich)	4.16	25							2003
GW-23 (Greenwich)	18.87	25							2003
HM 445 (Hamden)	17.11	28	19.68	24.60	14.67	2001	24.60	2002	17.46
HM 446 (Hamden)	2.75	28	2.90	2.70	1.16	2001	3.36	1995	2.86
HM 447 (Hamden)	1.85	28	2.32	2.59	0.62	2001	2.87	1995	1.88
HM 448 (Hamden)	12.25	28	12.92	13.40	11.39	2001	13.40	2002	13.08
HM 449 (Hamden)	14.80	28	14.82	12.75	12.75	2002	16.62	1995	15.08
HM 450 (Hamden)	10.80	28	11.90	8.90	8.90	2002	13.06	2000	12.57
									1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE							NEW RECORD	YEAR RECORD BEGAN
	MARCH 2003 (DATE)	FEB. 2003	MARCH 2002	MARCH MAX (YR RECORDED)	MARCH MIN (YR RECORDED)	MAR. MEDIAN			
MB 32 (Marlborough)	1.20	24	3.28	6.70	0.30	1994	6.70	2002	2.48
MB 35 (Marlborough)	4.49	24	8.48	13.80	3.67	1994	13.80	2002	6.52
MB 36 (Marlborough)	2.11	24	2.50	2.52	1.74	1994	3.24	1995	2.65
MF 1 (Middlefield)	3.55	24	7.50	6.11	2.69	1978	9.22	2002	5.38
MS 19 (Mansfield)	10.22	26	11.25	14.60	8.89	1972	15.08	2002	10.31
MS 44 (Mansfield)	+0.64	26	2.90	4.39	+0.64	2003	4.39	2002	1.45
MS 45 (Mansfield)	10.60	26	12.02	13.84	9.00	1993	13.84	2002	10.69
MS 46 (Mansfield)	12.42	26	12.72	15.06	10.72	1993	15.06	2002	12.24
MS 74 (Mansfield)	0.62	26	1.58	7.50	+0.14	1993	7.50	2002	0.58
MS 75 (Mansfield)	4.75	26	6.58	19.08	4.01	1993	19.08	2002	8.20
MS 76 (Mansfield)	30.08	26	31.95	35.22	28.63	2001	35.22	2002	29.37
MS 77 (Mansfield)	0.78	26	2.98	6.80	0.31	1994	6.80	2002	0.83
MS 80 (Mansfield)	11.09	26							2003
MT 261 (Middletown)	19.43	24	20.10	20.88	17.39	1977	21.07	2002	19.25
NHV 201 (North Haven)	15.03	28	15.54	17.58	13.27	1979	17.58	2002	15.23
NOC 7 (North Canaan)	9.02	31	9.17	9.31	7.60	1963	9.85	1983	9.15
NSN 77 (N. Stonington)	7.58	24	10.95	10.16	6.30	1993	11.04	1992	9.46
NSN 78 (N. Stonington)	3.71	24	3.94	3.80	2.92	1993	4.10	2000	3.72
NT 15 (Newtown)	3.52	28	4.44	6.40	0.75	1983	6.40	2002	3.19
PL 1 (Plainfield)	29.08	26	29.65	30.70	27.77	1998	31.73	1966	29.63
SB 30 (Southbury)	18.15	25	18.83	20.31	15.94	1998	20.31	2002	17.90
SB 39 (Southbury)	4.94	25	5.92	6.89	3.20	1993	6.89	2002	5.38
SB 41 (Southbury)	46.26	25	48.09	47.50	45.05	1993	47.50	2002	46.34
SB 42 (Southbury)	12.50	25	frozen	15.21	10.82	1994	15.28	2002	11.83
SC 19 (Scotland)	1.75	26	3.54	4.81	0.98	1994	4.81	2002	2.00
SC 20 (Scotland)	0.03	26	5.37	7.82	+0.43	1994	7.82	2002	2.60
SC 21 (Scotland)	+0.29	26	0.62	1.24	+1.25	1994	1.24	2002	+0.32
SC 22 (Scotland)	9.30	26	11.58	12.96	6.62	1994	12.96	2002	10.79
SC 23 (Scotland)	1.44	26	1.54	2.29	0.39	1994	2.29	2002	1.44
SM 7 (Salem)	7.63	24	9.26	10.05	6.45	1999/01	10.05	2002	8.23
SW 64 (S. Windsor)	9.25	26	10.80	13.10	7.65	1936	14.00	1966	10.68
SY 15 (Salisbury)	12.22	25	frozen	17.65	8.14	1993	17.65	2002	12.77
SY 23 (Salisbury)	4.27	25	5.18	10.55	3.89	2001	10.55	2002	5.11
SY 24 (Salisbury)	6.78	25	10.80	13.47	6.78	2003	14.11	1989	10.31
WB 93 (Waterbury)	26.50	28	27.50	27.25	23.09	1980	27.85	1997	26.48
WB 198 (Waterbury)	13.45	28	13.40	20.78	5.82	1948	21.72	2002	11.92
WY 1 (Woodbury)	20.91	25	21.89	26.47	19.37	1983	27.20	1966	22.29

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; --, not measured.