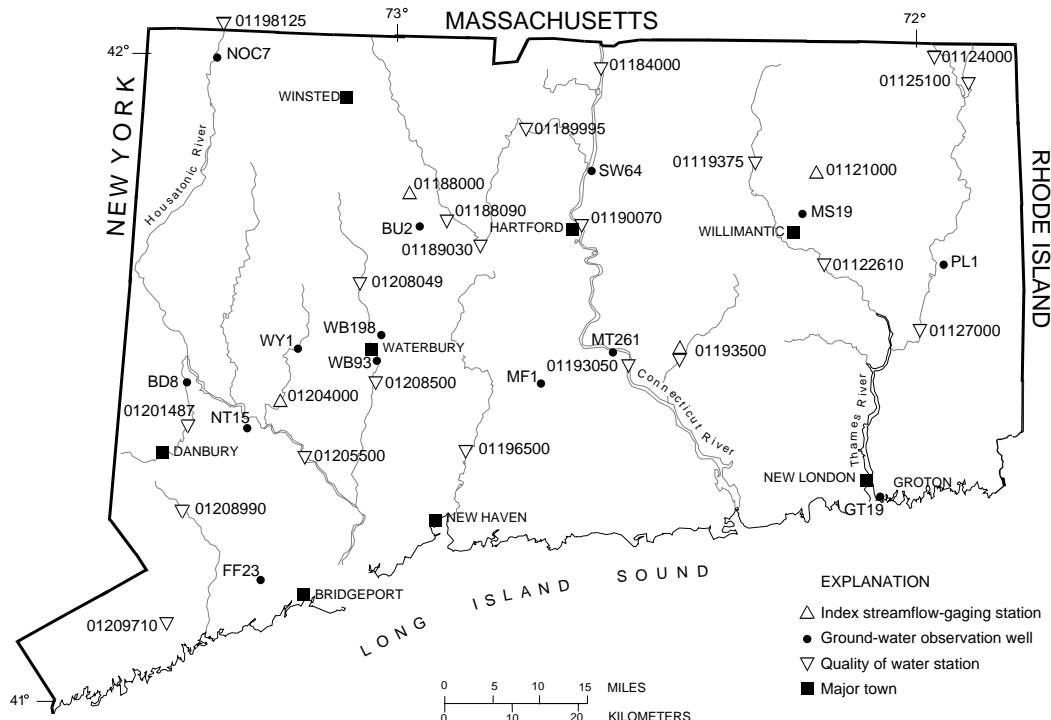


U.S. Department of the Interior U.S. Geological Survey



WATER-RESOURCES CONDITIONS IN CONNECTICUT, JANUARY 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

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

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

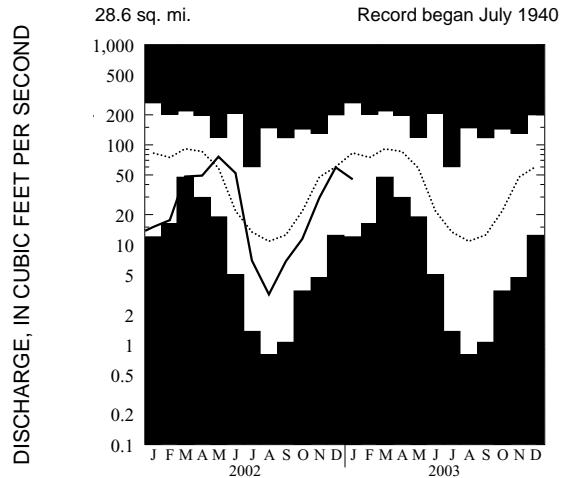
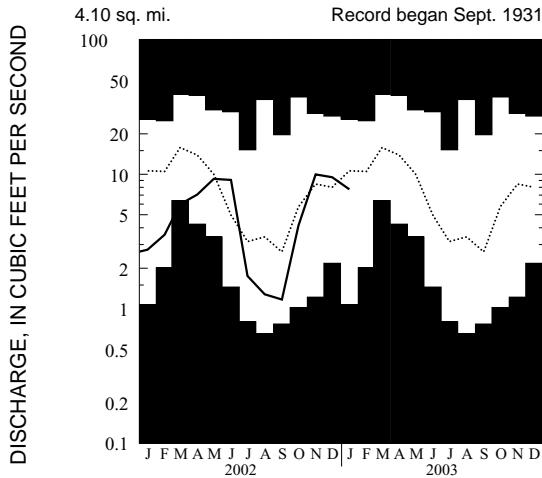
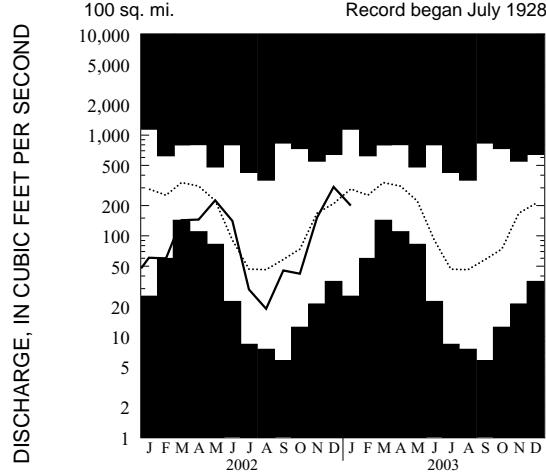
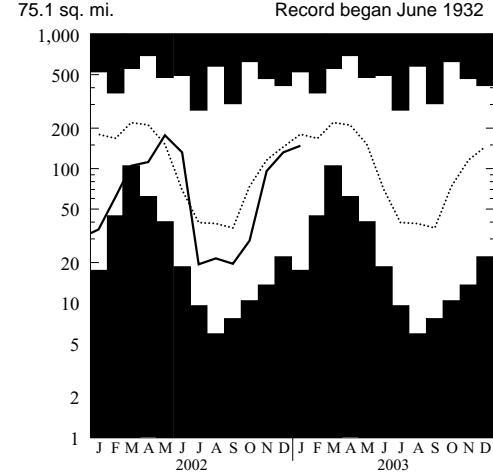
Streamflow across the State was in the normal range. Flow at Burlington Brook (NW Connecticut) remained in the normal range for the fourth consecutive month. Flows at Mount Hope River (NE Connecticut), Salmon River (SE Connecticut), and Pomperaug River (SW Connecticut) remained in the normal range for the third consecutive month. Across the State, mean streamflow for January averaged 69.2 percent of the January long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	JAN. 2003 MEAN	DEC. 2002 MEAN	JAN. 2002 MEAN	JAN. MAXIMUM VALUE (year recorded)	JAN. MINIMUM VALUE (year recorded)	JAN. MEDIAN (1971-2000)
MT HOPE RIVER (01121000)	45.2	59.5	15.0	264	1979	83.1
BURLINGTON (01188000)	7.72	9.50	2.75	25.7	1996	10.6
SALMON RIVER (01193500)	200	306	60.7	1,144	1979	292
POMPERAUG (01204000)	148	132	35.2	525	1979	180

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 SOUTHURY**

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

→ PROVISIONAL DATA ←

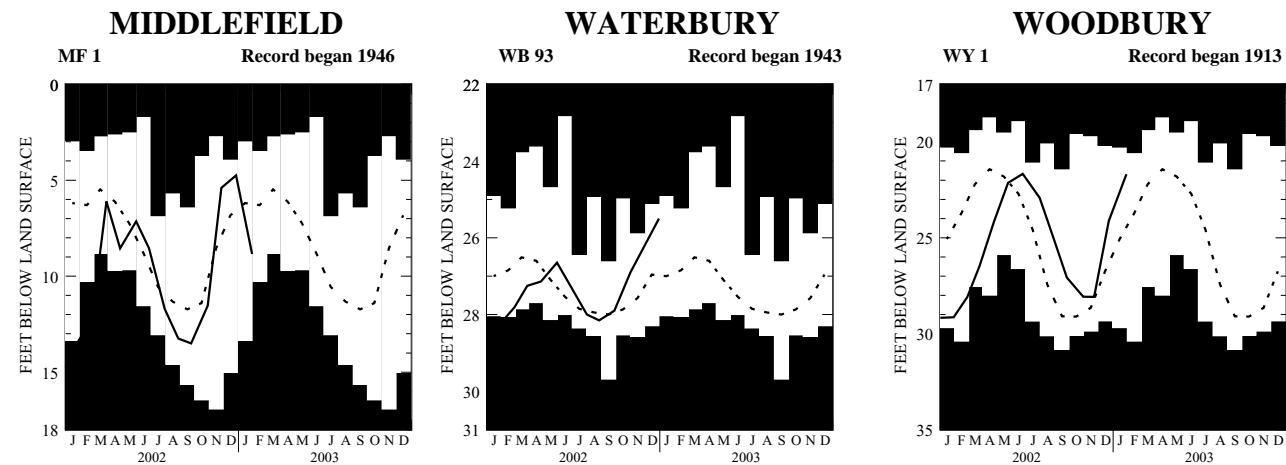
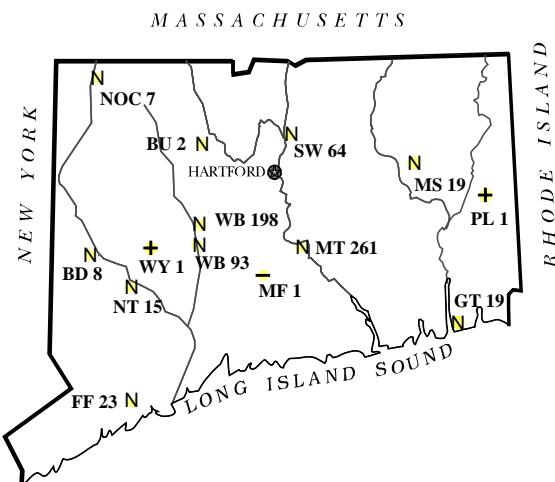
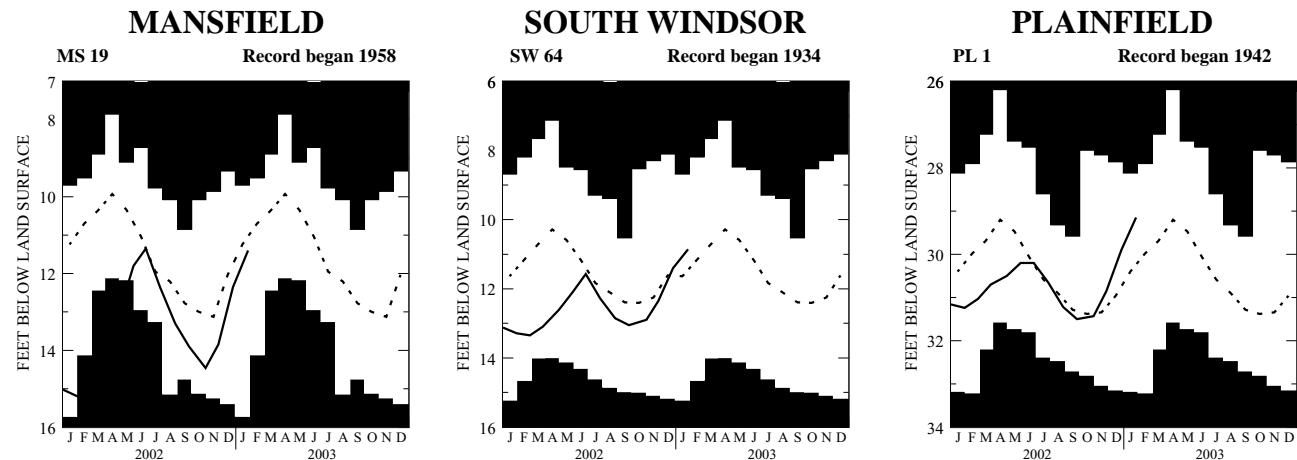
[Station locations shown on front page; --, not applicable; —, not available; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using 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 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	1/14	189 / --	122	0.5	14.4 / 101	6.4	100	74 K
01122610 Shetucket R. at South Windham	1/15	635 / --	120	0.5	14.2 / 99	6.5	84 K	61
01124000 Quinebaug R. at Quinebaug	1/13	358 / 26	226	0.0	14.1 / 98	6.9	66 K	56
01125100 French R. at North Grosvenordale	1/13	218 / --	279	1.0	13.9 / 100	6.7	140	73 K
01127000 Quinebaug R. at Jewett City	1/15	1,170 / 40	144	0.5	14.0 / 97	7.6	1,060	1,080
01184000 Connecticut R. at Thompsonville	1/9	11,100 / 51	162	1.0	13.9 / 98	7.2	--	--
01188090 Farmington R. at Unionville	1/22	479 / 50	114	0.0	14.1 / 105	7.0	20	5 K
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	1/6	315 / 18	112	1.0	14.2 / 100	6.7	30	14 K
01196500 Quinnipiac R. at Wallingford					SITE NOT SAMPLED THIS MONTH			
01198125 Housatonic R. near Ashley Falls, MA	1/9	1,070 / --	362	1.0	12.6 / 93	7.7	180	100 K
01201487 Still R. at Rt. 7 at Brookfield Center	1/23	60.4 / --	607	0.0	12.7 / 88	7.8	2,100	2,400
01205500 Housatonic R. at Stevenson	1/21	111 / 95	284	1.0	14.8 / 104	7.3	22	4 K
01208049 Naugatuck R. near Waterville	1/7	305 / --	179	1.5	13.8 / 100	6.6	96	88
01208500 Naugatuck R. at Beacon Falls	1/8	610 / 30	252	2.0	13.6 / 101	6.9	4,400	2,900
01208990 Saugatuck R. near Redding	1/21	28.3 / 49	263	0.5	15.0 / 105	7.8	12	1 K
01209710 Norwalk R. near Winnipauk	1/16	62.0 / --	355	0.5	15.7 / 106	7.7	--	--

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

Two low ground-water levels were recorded during January 2003.

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 RECORD	YEAR RECORD BEGAN
	JAN. 2003 (DATE)	DEC. 2002	JAN. 2002	JAN. MAX (YR RECORDED)	JAN. MIN (YR RECORDED)	JAN. MEDIAN			
BD 8 (Brookfield)	30.20	29	31.18	33.10	27.80	1973	33.41	1981	30.44
BU 2 (Burlington)	20.01	29	24.84	DRY	15.64	1952	DRY	2002	20.28
BU 143 (Burlington)	4.45	29	4.32	10.76	3.83	1997	10.76	2002	5.16
BU 144 (Burlington)	2.65	29	2.41	2.57	2.44	1999	2.78	1997	2.70
CL 223 (Clinton)	4.72	30	2.59	8.33	2.41	1996	8.33	2002	3.78
CL 224 (Clinton)	19.38	30	19.78	23.31	18.95	1997	23.31	2002	20.35
CL 225 (Clinton)	5.99	30	5.29	6.51	4.91	1996	6.51	2002	5.55
CO 335 (Colchester)	7.21	30	6.40	7.95	4.66	1990	7.95	2002	6.82
CV 51 (Coventry)	4.44	27	4.52	6.18	3.26	1996	7.03	1999	4.15
D 116 (Durham)	2.10	30	0.14	3.82	0.05	1998	3.82	2002	0.39
D 117 (Durham)	11.17	30	8.95	11.05	4.73	1996	11.17	2003	9.57 <
D 119 (Durham)	1.02	30	+0.06	0.24	0.03	1986	1.45	2000	0.34
D 120 (Durham)	2.18	30	1.31	2.46	0.56	1998	2.56	1986	1.89
EL 82 (Ellington)	5.89	27	5.47	6.49	5.01	1996	6.49	2002	5.68
EL 139 (Ellington)	21.61	27	21.84	DRY	18.02	1999	DRY	2002	20.01
EL 140 (Ellington)	13.24	27	13.14	19.65	10.27	1996	19.65	2002	11.82
EW 133 (East Windsor)	5.05	27	4.81	5.51	3.40	1996	5.51	2002	4.90
EW 134 (East Windsor)	51.35	27	51.50	52.02	49.16	1997	52.02	2002	51.02
FF 23 (Fairfield)	8.13	31	7.50	8.28	5.49	1976	8.55	1981	7.90
FF 30 (Fairfield)	4.03	31	2.20	9.97	0.68	1997	9.97	2002	2.07
FF 31 (Fairfield)	7.38	31	5.27	10.32	2.46	1996	10.32	2002	5.79
FF 32 (Fairfield)	5.90	31	5.05	7.73	5.10	1998	7.73	2002	5.83
FF 33 (Fairfield)	4.96	31	4.45	5.35	3.99	1996	5.35	2002	4.74
GR 328 (Granby)	11.20	31	11.31	18.61	7.74	1996	18.61	2002	11.13
GR 329 (Granby)	5.31	31	3.83	9.68	0.88	1996	9.68	2002	5.27
GR 330 (Granby)	2.76	29	2.45	2.86	2.26	1996	3.81	1985	3.26
GR 331 (Granby)	9.41	29	8.19	10.19	6.59	1996	11.27	2001	9.26
GT 19 (Groton)	15.05	26	13.93	16.19	10.20	1979	17.08	1966	14.80
HM 445 (Hamden)	20.51	31	16.02	34.41	14.50	1998	34.41	2002	18.85
HM 446 (Hamden)	3.42	31	3.04	4.05	1.11	1994	4.05	2002	3.12
HM 447 (Hamden)	2.74	31	3.07	3.08	0.84	1994	3.08	2002	2.21
HM 448 (Hamden)	13.23	31	12.46	14.48	9.74	1996	14.48	2002	12.81
HM 449 (Hamden)	17.67	31	14.80	15.30	11.02	1996	17.67	2003	14.58 <
HM 450 (Hamden)	12.51	31	10.56	DRY	12.02	1996	13.39	2001	12.51

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RECORD	YEAR RECORD BEGAN
	JAN. 2003 (DATE)	DEC. 2002	JAN. 2002	JAN. MAX (YR RECORDED)	JAN. MIN (YR RECORDED)	JAN. MEDIAN				
MB 32 (Marlborough)	4.00	30	1.90	10.40	0.95	1996	10.40	2002	3.54	1986
MB 35 (Marlborough)	8.85	30	7.12	17.70	4.48	1996	17.70	2002	7.66	1993
MB 36 (Marlborough)	3.88	30	2.34	5.88	1.32	1997	5.88	2002	2.83	1993
MF 1 (Middlefield)	8.85	30	4.75	13.37	2.95	1996	13.37	2002	6.27	1946
MS 19 (Mansfield)	11.40	27	12.35	15.19	9.70	1998	15.72	1966	11.36	1958
MS 44 (Mansfield)	3.48	27	0.80	7.19	0.32	1990	7.19	2002	2.55	1982
MS 45 (Mansfield)	12.72	27	12.34	14.48	9.31	1996	14.48	2002	11.60	1987
MS 46 (Mansfield)	13.77	27	14.04	15.34	11.75	1996	15.34	2002	12.93	1987
MS 74 (Mansfield)	3.61	27	3.88	10.40	0.55	1993	10.40	2002	1.69	1992
MS 75 (Mansfield)	7.49	27	11.42	19.93	4.40	1997	19.93	2002	8.20	1992
MS 76 (Mansfield)	31.37	27	32.60	37.17	28.58	1997	37.17	2002	30.44	1992
MS 77 (Mansfield)	3.65	27	3.78	10.75	0.83	1994	10.75	2002	2.13	1993
MT 261 (Middletown)	19.63	30	19.74	25.57	17.85	1979	26.08	1981	19.77	1956
NHV 201 (North Haven)	15.33	31	15.45	17.93	13.35	1979	17.93	2002	15.98	1975
NOC 7 (North Canaan)	9.40	30	9.28	9.58	8.50	1996	9.87	1968	9.41	1958
NSN 77 (N. Stonington)	10.89	30	9.48	14.28	5.99	1998	14.28	2002	10.48	1991
NSN 78 (N. Stonington)	4.76	30	3.67	4.39	3.28	1999	4.84	1993	3.80	1991
NT 15 (Newtown)	4.52	31	2.57	8.41	1.62	1996	10.67	1981	4.58	1966
PL 1 (Plainfield)	29.15	27	29.90	31.24	28.12	1973	33.17	1966	30.37	1942
SB 30 (Southbury)	17.97	29	19.25	21.22	16.74	1996	21.22	2002	18.20	1979
SB 39 (Southbury)	7.11	29	6.17	7.47	2.35	1996	7.63	1994	6.58	1991
SB 41 (Southbury)	48.21	29	47.10	50.56	45.21	1995	50.56	2002	46.85	1991
SB 42 (Southbury)	14.15	29	14.58	19.10	10.97	1996	19.10	2002	12.38	1993
SC 19 (Scotland)	4.82	27	1.57	9.45	0.98	1994	9.45	2002	3.14	1983
SC 20 (Scotland)	4.45	27	5.05	11.36	2.34	1997	11.36	2002	4.92	1983
SC 21 (Scotland)	1.21	31	0.13	1.55	+0.71	1997	1.55	2002	0.50	1983
SC 22 (Scotland)	11.31	27	10.77	14.41	8.16	1996	14.41	2002	11.50	1984
SC 23 (Scotland)	2.17	27	1.36	2.49	0.26	1999	2.49	2002	2.03	1983
SM 7 (Salem)	9.07	30	7.37	13.15	7.14	1993	13.15	2002	9.00	1979
SW 64 (S. Windsor)	10.86	27	11.40	13.29	8.68	1997	15.22	1996	11.58	1934
SY 15 (Salisbury)	frozen	29	14.05	17.02	12.14	1993	17.02	2002	13.52	1966
SY 23 (Salisbury)	6.22	29	4.55	14.00	4.73	1996	14.00	2002	6.04	1987
SY 24 (Salisbury)	10.62	29	9.95	15.30	9.26	1995	15.30	2002	11.37	1986
WB 93 (Waterbury)	27.15	31	25.50	28.21	24.90	1996	28.21	2002	27.00	1943
WB 198 (Waterbury)	13.95	31	14.07	22.53	6.56	1949	22.53	2002	13.98	1943
WY 1 (Woodbury)	21.69	29	24.12	29.14	20.28	1979	29.90	1915	25.43	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; --, not measured.