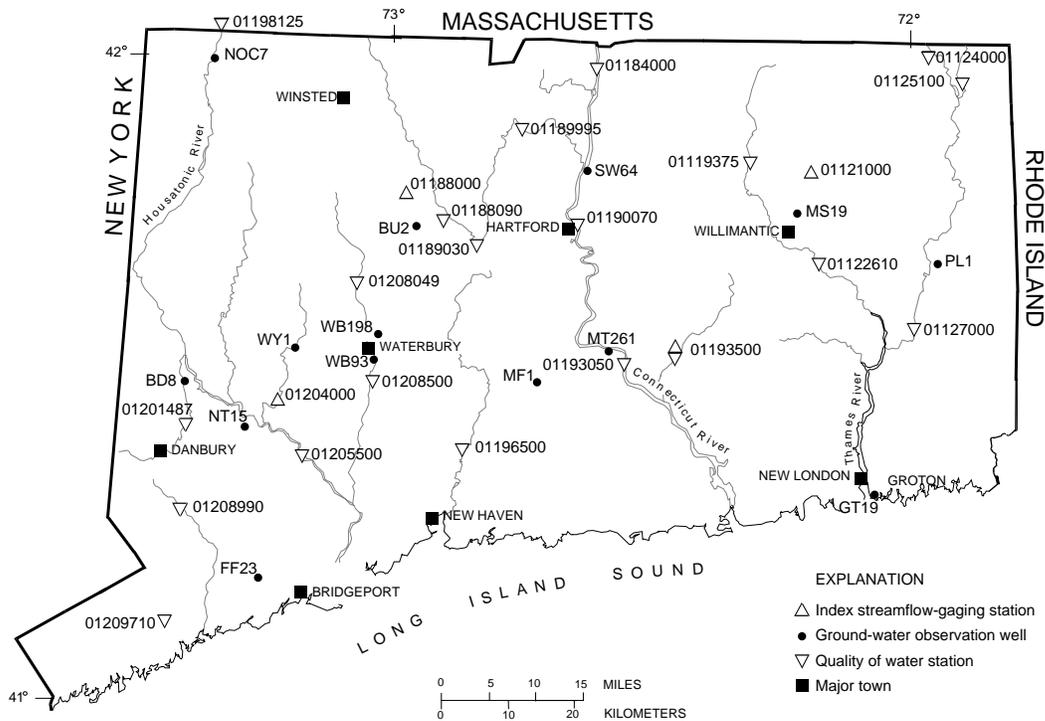


**U.S. Department of the Interior
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, FEBRUARY 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 ➔

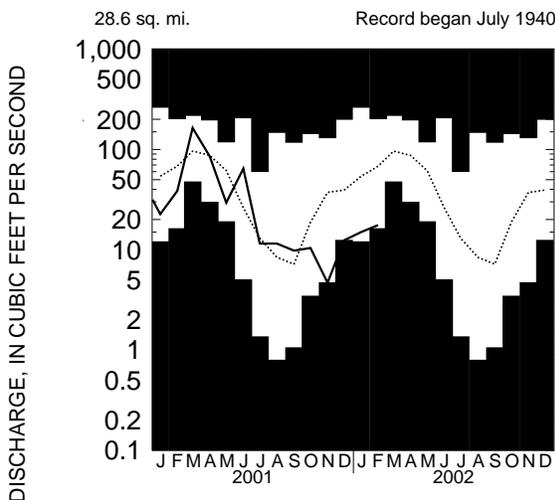
Streamflow across the State was in the below-normal range. Flow at two stations—Mount Hope River (NE Connecticut) and Pomperaug River (SW Connecticut)—was in the below-normal range for the fourth consecutive month. Flow at Burlington Brook (NW Connecticut) was in the below-normal range for the fifth consecutive month and flow in the Salmon River (SE Connecticut) was in the below-normal range for the sixth consecutive month. Flow at Salmon also was the lowest flow recorded in February for the period of record. Across the State, mean streamflow for February averaged 33 percent of the February long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	FEB. 2002 MEAN	JAN. 2002 MEAN	FEB. 2001 MEAN	FEB. MAXIMUM VALUE (year recorded)		FEB. MINIMUM VALUE (year recorded)		FEB. MEDIAN (1961-90)
				Value	Year	Value	Year	
MT HOPE RIVER (01121000)	17.6	15.0	38.5	203	1970	16.2	1980	68.1
BURLINGTON (01188000)	3.55	2.75	5.84	25.0	1981	2.02	1934	8.31
SALMON RIVER (01193500)	59.8	60.7	175	623	1973	59.8	2002	247
POMPERAUG (01204000)	61.9	35.2	129	366	1970	44.6	1936	161

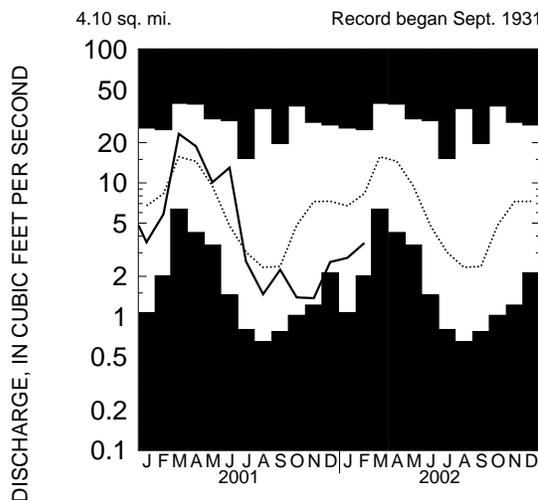
MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

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

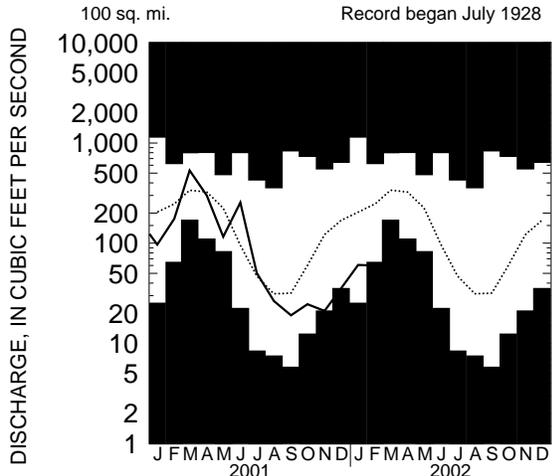
MOUNT HOPE RIVER NEAR WARRENVILLE



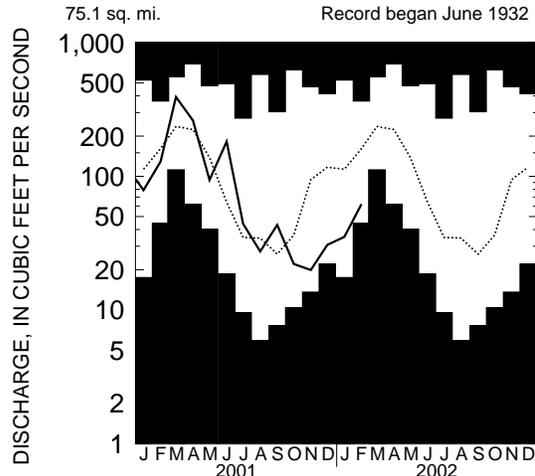
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHBURY



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


 PROVISIONAL DATA

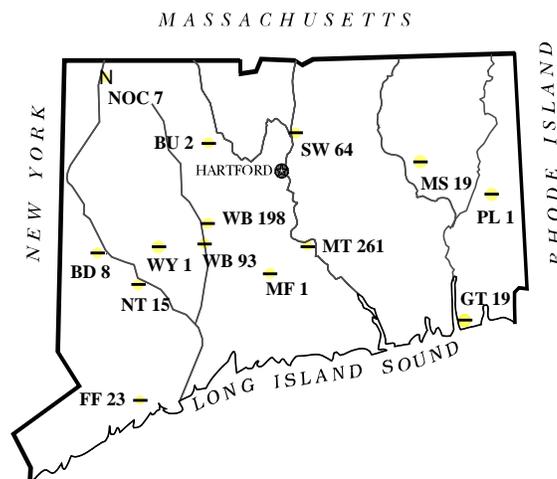
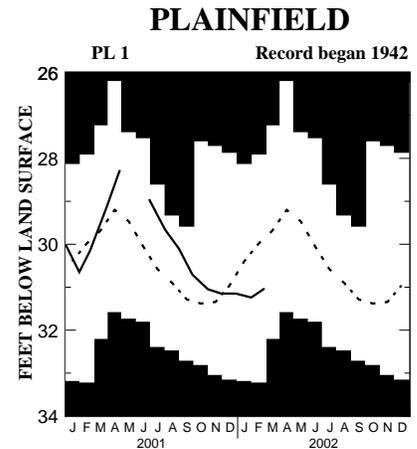
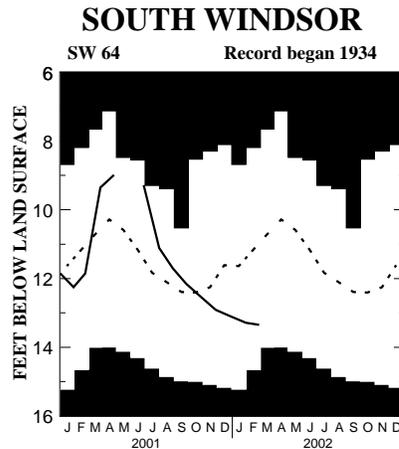
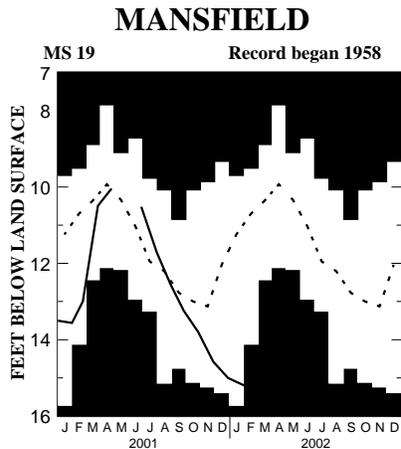
[Station locations shown on front page; --, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data 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	SITE NOT SAMPLED THIS MONTH							
01122610 Shetucket R. at South Windham	SITE NOT SAMPLED THIS MONTH							
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	2/14	9700 / 57	142	1.0	14.3 / 99	7.13	83	52
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	2/7	29.9 / --	482	4.5	11.2 / 88	7.40	11800 K	3800
01189995 Farmington R. at Tariffville	2/7	332 / 93	197	2.0	14.2 / 104	6.80	860	196
01190070 Connecticut R. at Hartford	2/20	-- / --	136	3.5	13.9 / 105	6.70	116	40
01193050 Connecticut R. at Middle Haddam	2/20	-- / --	152	3.5	13.6 / 101	6.90	220	540
01193500 Salmon R. near East Hampton	SITE NOT SAMPLED THIS MONTH							
01196500 Quinnipiac R. at Wallingford	2/4	80.0 / 80	455	4.0	12.9 / 99	7.60	730,000 K	5700
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	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	2/26	19.0 / --	324	7.0	14.7 / 123	8.17	--	--

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.



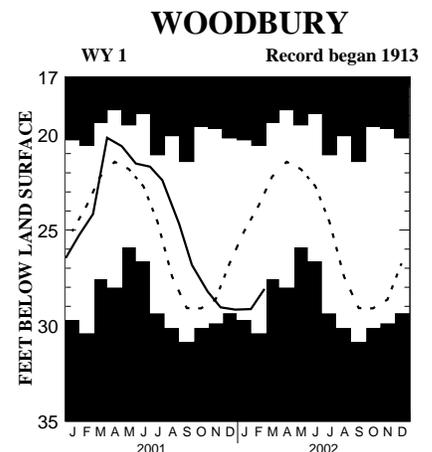
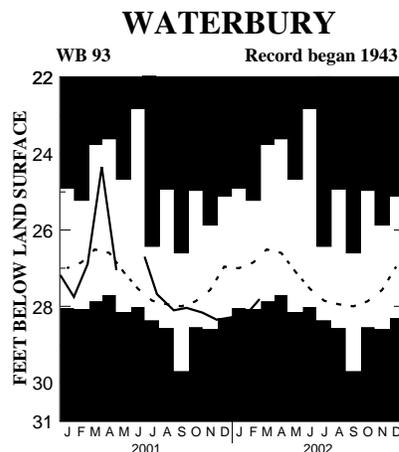
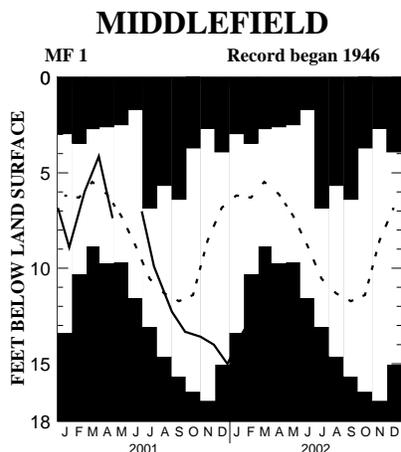
NORMAL RANGE

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 53 monthly low ground-water levels recorded in February. In 4 of these wells, record lows for the period of record also were established.

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.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	FEB. 2002 (DATE)	JAN. 2002	FEB. 2001	FEB. MAX (YR RECORDED)	FEB. MIN (YR RECORDED)	FEB. MEDIAN					
BD 8 (Brookfield)	33.02 26	33.10	30.51	27.55 1970/73	33.02 2002	30.26	<	1966			
BU 2 (Burlington)	DRY 26	DRY	30.39	15.69 1953	DRY 2002	19.57	<,<<	1946			
BU 143 (Burlington)	9.98 26	10.76	6.80	3.13 1996	9.98 2002	3.87	<	1996			
BU 144 (Burlington)	2.65 26	2.57	2.62	2.61 1999	3.62 1997	2.62		1996			
CL 223 (Clinton)	7.17 25	8.33	3.17	1.69 1994	7.17 2002	3.36	<	1991			
CL 224 (Clinton)	22.76 25	23.31	20.25	18.70 1996	22.76 2002	19.77	<	1991			
CL 225 (Clinton)	6.30 25	6.51	5.87	5.10 1998	6.30 2002	5.54	<	1991			
CO 335 (Colchester)	7.96 25	7.95	6.61	5.82 1998	7.96 2002	6.64	<	1986			
CV 51 (Coventry)	5.98 27	6.18	4.46	3.69 1999	5.98 2002	4.18	<	1992			
D 116 (Durham)	0.75 25	3.82	0.08	0.07 1998	1.09 2000	0.44		1986			
D 117 (Durham)	10.95 25	11.05	9.34	6.40 1996	11.38 2000	9.75		1986			
D 119 (Durham)	0.28 25	0.24	0.05	0.05 1998/01	1.34 1994	0.34		1986			
D 120 (Durham)	2.33 25	2.46	1.25	+0.05 1994	2.44 1987	1.92		1986			
EL 82 (Ellington)	6.47 27	6.49	4.90	4.90 2001	6.47 2002	5.58	<	1987			
EL 139 (Ellington)	DRY 27	DRY	21.58	18.44 1996	DRY 2002	20.55	<,<<	1993			
EL 140 (Ellington)	18.90 27	19.65	13.10	11.54 1996	18.90 2002	12.33	<	1993			
EW 133 (East Windsor)	5.44 27	5.51	5.03	4.02 1994	5.44 2002	4.60	<	1986			
EW 134 (East Windsor)	52.20 27	52.02	51.49	49.18 1990	53.50 1999	50.82		1986			
FF 23 (Fairfield)	8.40 28	8.28	7.48	6.80 1979	8.43 1969	7.79		1966			
FF 30 (Fairfield)	9.03 28	9.97	1.06	0.87 1996	9.03 2002	1.67	<	1993			
FF 31 (Fairfield)	9.95 28	10.32	5.43	3.48 1998	9.95 2002	5.79	<	1993			
FF 32 (Fairfield)	7.42 28	7.73	frozen	5.20 1996	7.42 2002	5.72	<	1993			
FF 33 (Fairfield)	5.51 28	5.35	4.27	4.27 2001	5.51 2002	4.78	<	1993			
GR 328 (Granby)	18.58 26	18.61	15.07	7.46 1996	18.58 2002	10.46	<	1981			
GR 329 (Granby)	11.24 26	9.68	6.62	2.90 1999	11.24 2002	4.75	<	1982			
GR 330 (Granby)	2.83 26	2.86	2.78	1.72 1996	3.67 1987	2.93		1982			
GR 331 (Granby)	9.64 26	10.19	10.29	7.89 1984	10.80 1987	9.67		1983			
GT 19 (Groton)	16.20 24	16.19	14.87	12.20 1960	16.37 1981	14.46		1958			
HM 445 (Hamden)	32.55 28	34.41	16.72	14.05 1998	32.55 2002	18.64	<	1988			
HM 446 (Hamden)	4.05 28	4.05	2.95	2.52 1996	4.05 2002	2.87	<	1993			
HM 447 (Hamden)	3.78 28	3.08	2.31	1.61 1996	3.78 2002	2.30	<	1993			
HM 448 (Hamden)	14.47 28	14.48	12.82	11.86 1996	14.47 2002	12.92	<	1993			
HM 449 (Hamden)	15.25 28	15.30	14.16	11.92 1996	16.63 1994	15.06		1993			
HM 450 (Hamden)	13.09 28	DRY	11.15	11.15 2001	13.66 1994	13.01		1993			

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	FEB. 2002 (DATE)	JAN. 2002	FEB. 2001	FEB. MAX (YR RECORDED)			FEB. MIN (YR RECORDED)		FEB. MEDIAN		
MB 32 (Marlborough)	9.68	25	10.40	3.58	1.21	1998	9.68	2002	3.44	<	1986
MB 35 (Marlborough)	16.58	25	17.70	10.12	5.65	1998	16.58	2002	7.57	<	1993
MB 36 (Marlborough)	5.01	25	5.88	2.04	2.01	1998	5.01	2002	2.83	<	1993
MF 1 (Middlefield)	12.25	25	13.37	5.98	3.45	1961	12.25	2002	6.30	<	1946
MS 19 (Mansfield)	15.27	27	15.19	13.00	9.51	1990	15.27	2002	10.71	<	1958
MS 44 (Mansfield)	6.00	27	7.19	1.19	0.40	1998	6.00	2002	2.28	<	1982
MS 45 (Mansfield)	14.52	27	14.48	12.90	10.64	1996	14.52	2002	11.74	<	1987
MS 46 (Mansfield)	15.40	27	15.34	13.82	12.07	1994	15.40	2002	12.86	<	1987
MS 74 (Mansfield)	9.44	27	10.40	2.60	0.39	1994	9.44	2002	1.83	<	1992
MS 75 (Mansfield)	20.08	27	19.93	13.49	4.73	1996	20.08	2002	6.34	<	1992
MS 76 (Mansfield)	37.21	27	37.17	31.35	29.57	1994	37.21	2002	30.72	<,<<	1992
MS 77 (Mansfield)	8.68	27	10.75	2.88	0.90	1997	8.68	2002	2.00	<	1993
MT 261 (Middletown)	25.58	25	25.57	19.66	18.09	1981	25.58	2002	19.58	<	1956
NHV 201 (North Haven)	17.98	28	17.93	15.99	13.92	1976	17.98	2002	15.88	<	1975
NOC 7 (North Canaan)	9.43	27	9.58	9.30	8.50	1981	9.84	1977	9.39		1958
NSN 77 (N. Stonington)	12.73	25	14.28	10.12	7.12	1998	12.73	2002	10.12	<	1991
NSN 78 (N. Stonington)	4.47	25	4.39	4.21	3.53	1995	4.52	1993	3.80		1991
NT 15 (Newtown)	8.21	28	8.41	4.05	2.06	1975	8.21	2002	4.22	<	1966
PL 1 (Plainfield)	31.03	27	31.24	30.15	27.90	1979	32.69	1966	29.97		1942
SB 30 (Southbury)	20.82	26	21.22	18.63	16.06	1996	20.82	2002	18.23	<	1979
SB 39 (Southbury)	7.25	26	7.47	6.44	4.79	1996	7.25	2002	6.24	<	1991
SB 41 (Southbury)	48.50	26	50.56	47.50	45.96	1997	48.50	2002	46.56	<	1991
SB 42 (Southbury)	16.83	26	19.10	12.30	11.16	1996	16.83	2002	11.97	<	1993
SC 19 (Scotland)	8.36	27	9.45	3.02	1.40	1996	8.36	2002	2.83	<	1983
SC 20 (Scotland)	10.46	27	11.36	6.96	0.35	1998	10.46	2002	3.87	<	1983
SC 21 (Scotland)	1.65	27	1.55	1.05	+0.41	1996	1.65	2002	+0.20	<	1983
SC 22 (Scotland)	14.16	27	14.41	12.40	8.84	1996	14.16	2002	10.85	<	1984
SC 23 (Scotland)	2.59	27	2.49	2.14	0.26	1999	2.59	2002	1.74	<	1983
SM 7 (Salem)	12.50	25	13.15	8.54	6.79	1998	12.50	2002	8.75	<	1979
SW 64 (S. Windsor)	13.35	27	13.29	11.85	8.19	1976	14.65	1966	11.18		1934
SY 15 (Salisbury)	17.50	26	17.02	frozen	9.10	1996	17.50	2002	13.03	<,<<	1966
SY 23 (Salisbury)	12.86	26	14.00	5.94	4.34	1996	12.86	2002	6.02	<	1987
SY 24 (Salisbury)	14.43	26	15.30	12.09	8.89	1996	14.43	2002	11.46	<	1986
WB 93 (Waterbury)	27.81	28	28.21	26.89	21.45	1999	27.81	2002	26.90	<	1943
WB 198 (Waterbury)	22.00	28	22.53	16.65	9.48	1960	22.00	2002	13.53	<	1943
WY 1 (Woodbury)	28.09	27	29.14	24.16	20.56	1973	30.38	1977	24.41		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