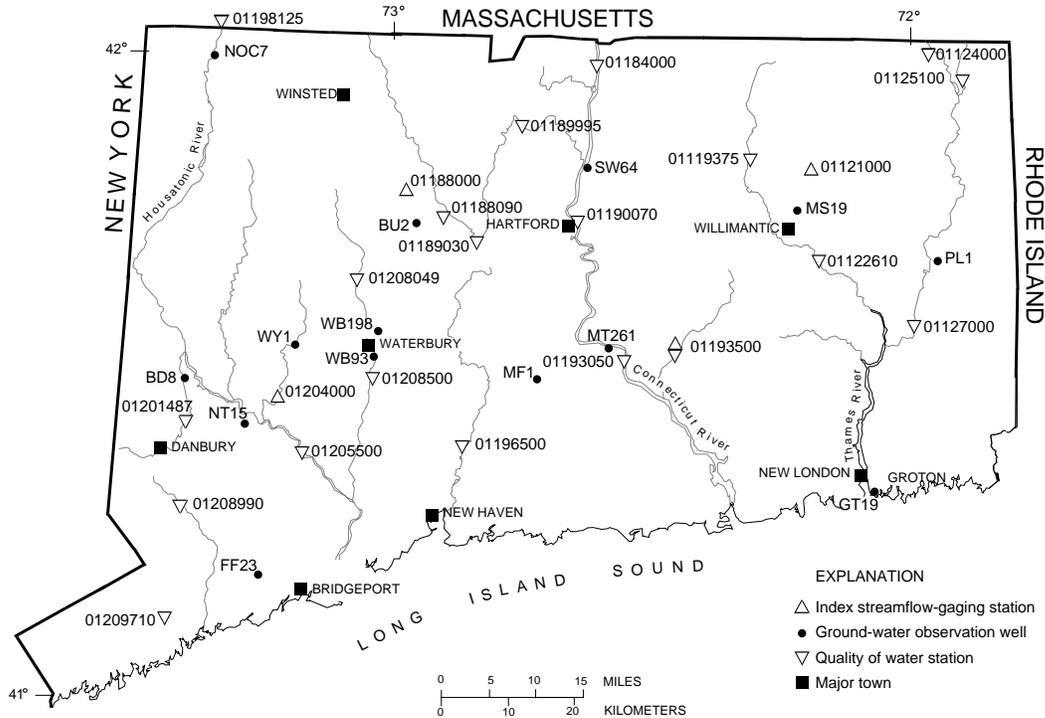


**U.S. Department of the Interior
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, NOVEMBER 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**

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Data Sites	1	Water Quality	3
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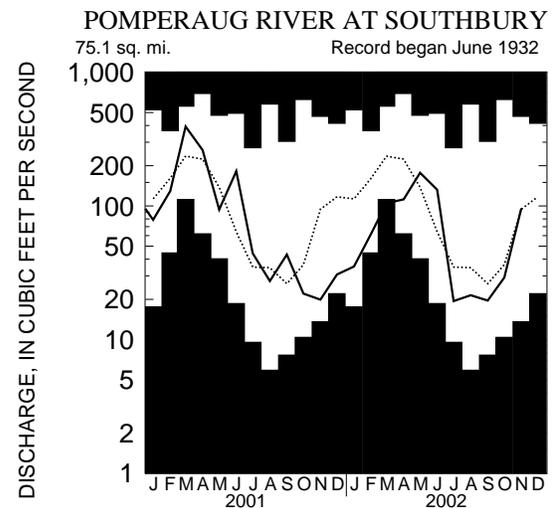
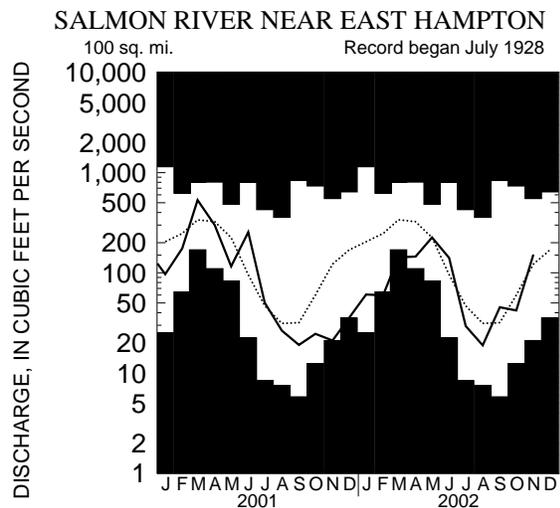
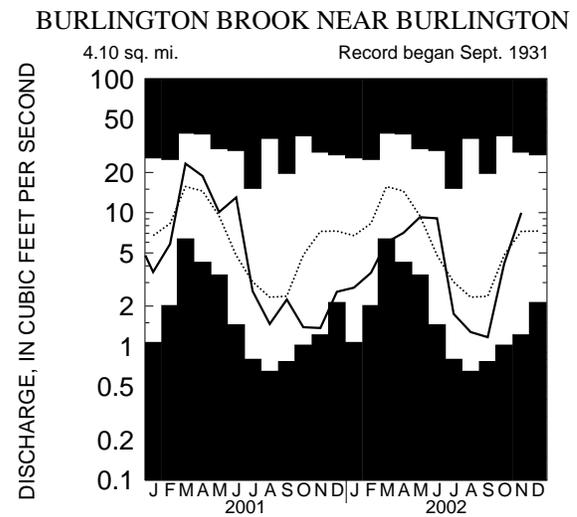
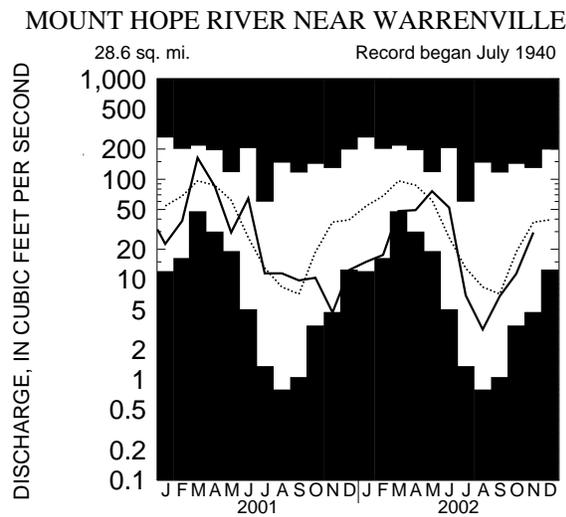
STREAMFLOW (measured in cubic feet per second) ➔ PROVISIONAL DATA ←

Streamflow across the State was in the normal range. Flow at Mount Hope River (NE Connecticut) rose to the normal range after 1 month in the below-normal range. Flow at Burlington Brook (NW Connecticut) remained in the normal range for the second consecutive month. Flows at Salmon River (SE Connecticut) and Pomperaug River (SW Connecticut) rose to the normal range from the below-normal range. Across the State, mean streamflow for November averaged 106 percent of the November long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	NOV. 2002 MEAN	OCT. 2002 MEAN	NOV. 2001 MEAN	NOV. MAXIMUM VALUE (year recorded)		NOV. MINIMUM VALUE (year recorded)		NOV. MEDIAN (1971-2000)
				Value	Year	Value	Year	
MT HOPE RIVER (01121000)	29.5	11.4	4.69	131	1956	4.69	2001	47.5
BURLINGTON (01188000)	9.98	4.15	1.37	28.4	1956	1.22	1932	8.46
SALMON RIVER (01193500)	152	42.2	21.1	551	1956	21.1	2001	168
POMPERAUG (01204000)	95.9	29.1	19.9	468	1956	13.6	1965	116

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 →

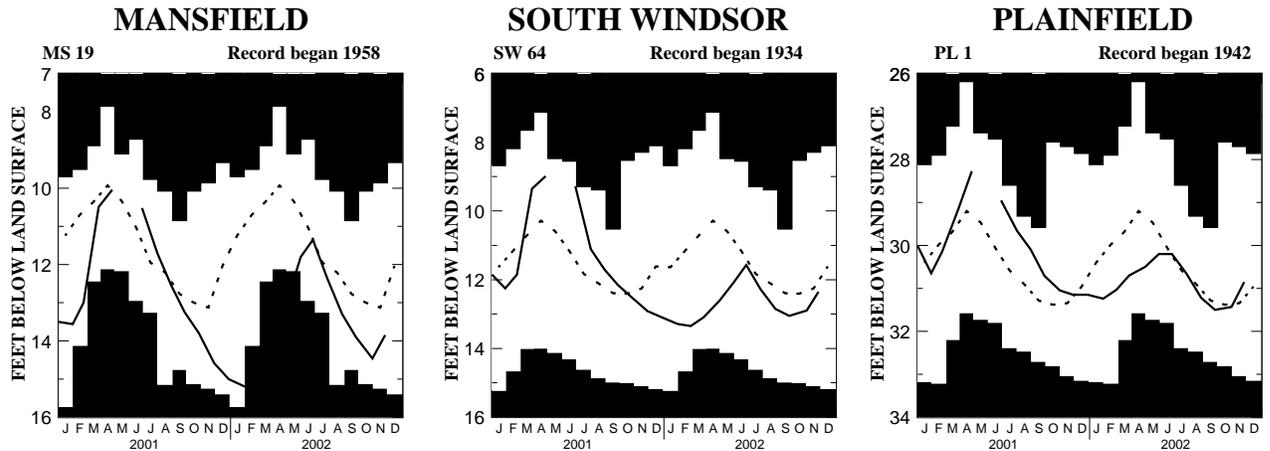
[Station locations shown on front page; - -, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data 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)	E. COLI (COL/100 mL)
01119375 Willimantic R. at Merrow	11/21	117 / - -	117	5.5	12.4 / 99	6.4	60 K	6400 K
01122610 Shetucket R. at South Windham	11/20	1060 / - -	107	6.5	12.5 / 102	6.6	640	950
01124000 Quinebaug R. at Quinebaug	11/12	70.8 / 79	276	11.0	11.3 / 104	6.4	144	144
01125100 French R. at North Grosvenordale	11/12	119 / - -	220	11.0	10.9 / 100	6.8	49	25
01127000 Quinebaug R. at Jewett City	11/20	1680 / 27	124	6.5	11.9 / 96	7.1	700	780
01184000 Connecticut R. at Thompsonville	SITE NOT SAMPLED THIS MONTH							
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	11/14	105 / - -	331	8.5	10.5 / 92	8.0	220 K	20K
01201487 Still R. at Rt. 7 at Brookfield Center	11/13	203 / - -	302	10.0	9.2 / 79	7.3	10800 K	7500
01205500 Housatonic R. at Stevenson	11/13	104 / 96	314	10.5	12.3 / 111	7.6	4 K	4 K
01208049 Naugatuck R. near Waterville	11/6	141 / - -	312	6.5	11.9 / 100	7.1	68	1180
01208500 Naugatuck R. at Beacon Falls	11/7	344 / 48	280	7.0	11.9 / 99	7.3	1020	312
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	11/14	51.0 / - -	312	14.5	9.2 / 106	8.0	- -	- -

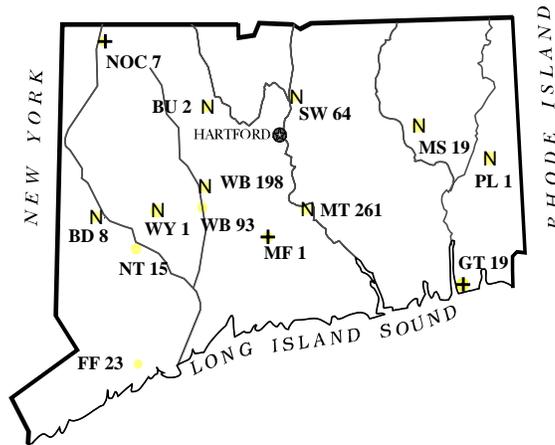
GROUND-WATER LEVELS

(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 2001.
-  Solid line shows current water levels.
-  Dashed line is monthly median for period of record through calendar year 2000.



MASSACHUSETTS



ABOVE NORMAL

Within the highest 25% of record for this month.



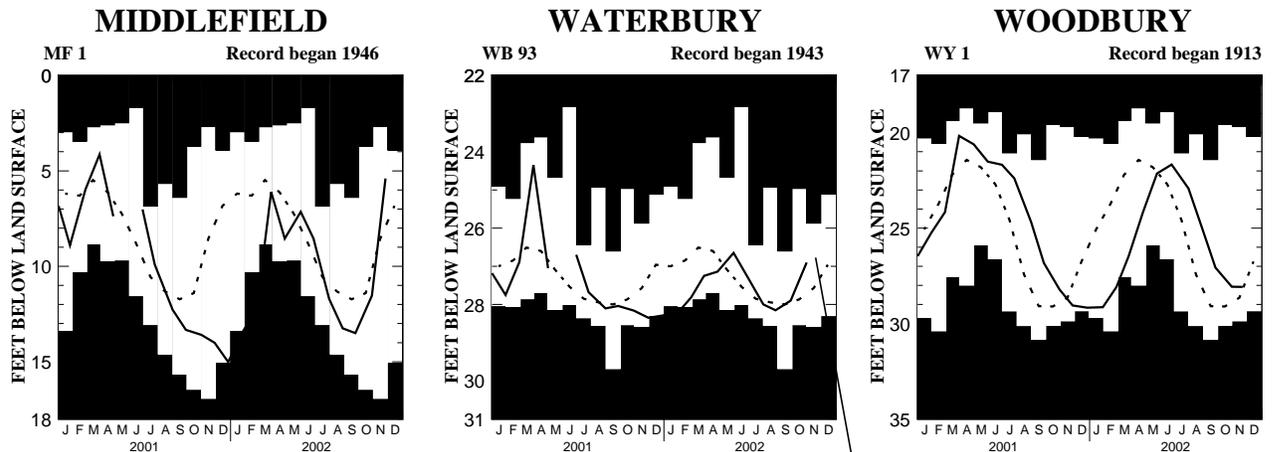
NORMAL RANGE

Between the highest and lowest 25% of record for this month.



BELOW NORMAL

Within the lowest 25% of record for this month.



not measured in Nov. 2002

GROUND-WATER LEVELS

Five high and two low ground-water levels were recorded during November 2002. One low for the period of record also was established during November 2002.

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.

Because of current conditions, measurements are being made in selected wells on a weekly or twice-a-month basis. In some wells, this causes the column labeled NOV. MIN or MAX to have a value in November 2002 that is not the same value as reported in the column labeled NOV. 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
	NOV. 2002 (DATE)	OCT. 2002	NOV. 2001	NOV. MAX (YR RECORDED)	NOV. MIN (YR RECORDED)	NOV. MEDIAN					
BD 8 (Brookfield)	31.92	22	32.49	33.12	27.90	1975	33.16	1980	31.46		1966
BU 2 (Burlington)	31.64	22	32.74	35.36	15.48	1955	36.23	1964	27.02		1946
BU 143 (Burlington)	7.32	22	9.46	11.16	3.61	1996	11.16	2001	7.97		1996
BU 144 (Burlington)	2.35	22	2.65	2.58	2.35	2002	2.66	1998	2.55	>	1996
CL 223 (Clinton)	3.42	26	6.87	10.76	3.01	1996	10.76	2001	6.65		1991
CL 224 (Clinton)	21.13	26	22.19	23.03	20.70	1996	23.05	1997	21.57		1991
CL 225 (Clinton)	5.43	26	5.97	7.66	5.23	1992	7.66	2001	6.20		1991
CO 335 (Colchester)	7.15	26	7.73	8.23	4.05	1995	8.23	2001	7.14		1986
CV 51 (Coventry)	5.22	25	6.08	7.17	3.67	1996	7.17	2001	5.78		1992
D 116 (Durham)	0.28	26	2.40	8.75	0.15	1991	8.75	2001	1.37		1986
D 117 (Durham)	9.45	26	10.26	12.56	7.98	1996	12.56	2001	10.78		1986
D 119 (Durham)	0.10	26	0.39	1.09	0.10	2002	1.09	2001	0.45	>	1986
D 120 (Durham)	1.68	26	2.01	2.68	1.68	2002	2.82	1998	2.27	>	1986
EL 82 (Ellington)	6.00	25	6.38	6.50	5.10	1996	6.50	2001	6.06		1987
EL 139 (Ellington)	DRY	25	DRY	DRY	20.70	1995	DRY	2002	25.24	<, <<	1993
EL 140 (Ellington)	17.44	25	21.26	22.99	12.99	1996	22.99	2001	18.38		1993
EW 133 (East Windsor)	5.17	25	5.61	5.60	4.45	1996	5.60	2001	5.08		1986
EW 134 (East Windsor)	51.90	25	52.10	51.73	49.28	1989	51.90	2002	51.20	<	1986
FF 23 (Fairfield)	--		7.95	8.34	7.05	1996	8.38	1973	7.94		1966
FF 30 (Fairfield)	--		5.75	11.54	1.00	1996	13.13	1998	8.12		1993
FF 31 (Fairfield)	--		9.20	14.37	3.99	1996	14.37	2001	7.12		1993
FF 32 (Fairfield)	--		5.90	11.41	5.62	1996	13.67	1998	7.43		1993
FF 33 (Fairfield)	--		4.90	5.65	4.22	1996	6.00	1998	5.20		1993
GR 328 (Granby)	16.36	22	17.71	17.86	9.31	1995	17.86	2001	14.29		1981
GR 329 (Granby)	3.46	22	11.93	12.39	3.46	2002	12.39	2001	7.17	>	1982
GR 330 (Granby)	2.31	22	2.88	3.19	2.31	2002	3.87	1987	3.54	>	1982
GR 331 (Granby)	8.09	22	9.66	12.79	7.98	1985	12.79	2001	9.71		1983
GT 19 (Groton)	14.15	24	16.45	17.18	12.25	1983	17.67	1965	15.90		1958
HM 445 (Hamden)	--		27.15	33.95	22.75	1997	33.95	2001	28.62		1988
HM 446 (Hamden)	--		3.75	5.05	3.03	1999	5.05	2001	3.82		1993
HM 447 (Hamden)	--		3.35	3.75	2.41	1999	3.75	2001	3.13		1993
HM 448 (Hamden)	--		13.82	14.47	12.43	1993	14.47	2001	13.98		1993
HM 449 (Hamden)	--		14.80	24.21	14.46	1999	24.21	2001	15.65		1993
HM 450 (Hamden)	--		11.90	DRY	11.41	1999	13.40	1998	13.07		1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE- CORD	YR RECORD BEGAN
	NOV. 2002 (DATE)	OCT. 2002	NOV. 2001	NOV. MAX (YR RECORDED)	NOV. MIN (YR RECORDED)	NOV. MEDIAN					
MB 32 (Marlborough)	4.45	26	7.47	11.01	1.39	1989	11.01	2001	5.90		1986
MB 35 (Marlborough)	14.12	26	17.05	17.99	7.80	1996	17.99	2001	13.85		1993
MB 36 (Marlborough)	2.78	26	6.68	9.23	0.98	1996	9.23	2001	3.64		1993
MF 1 (Middlefield)	5.40	26	11.54	14.00	2.68	1988	16.92	1964	9.63		1946
MS 19 (Mansfield)	13.85	25	14.46	14.58	9.86	1989	15.24	1963	13.12		1958
MS 44 (Mansfield)	1.09	25	3.78	9.41	0.49	1988	9.41	2001	3.86		1982
MS 45 (Mansfield)	13.39	25	14.44	14.55	11.75	1993	14.55	2001	13.04		1987
MS 46 (Mansfield)	14.70	25	15.20	15.21	12.87	1996	15.21	2001	14.20		1987
MS 74 (Mansfield)	8.15	25	10.18	11.00	1.00	1996	11.00	2001	7.34		1992
MS 75 (Mansfield)	15.37	25	16.22	18.50	9.69	1996	20.90	1997	16.34		1992
MS 76 (Mansfield)	34.10	25	34.55	36.75	29.85	2000	36.75	2001	33.39		1992
MS 77 (Mansfield)	7.92	25	10.27	10.75	0.65	1996	10.75	2001	5.98		1993
MT 261 (Middletown)	21.43	26	24.45	25.48	19.24	1989	27.46	1980	22.72		1956
NHV 201 (North Haven)	--		16.73	17.55	14.99	1976	17.57	1987	16.84		1975
NOC 7 (North Canaan)	8.97	25	9.54	9.87	5.40	1984	10.30	1964	9.43		1958
NSN 77 (N. Stonington)	12.35	26	15.88	15.78	10.39	1995	16.22	1993	14.17		1991
NSN 78 (N. Stonington)	4.05	26	4.19	4.85	3.65	1992	4.85	2001	3.92		1991
NT 15 (Newtown)	--		4.65	9.05	2.08	1975	10.95	1980	7.02		1966
PL 1 (Plainfield)	30.85	25	31.43	31.15	27.70	1955	33.03	1965	31.30		1942
SB 30 (Southbury)	20.87	22	21.43	21.30	16.93	1996	22.19	1991	20.20		1979
SB 39 (Southbury)	6.52	22	7.64	7.61	4.83	1996	7.61	2001	6.81		1991
SB 41 (Southbury)	49.85	22	52.35	53.43	45.44	1992	53.43	2001	48.28		1991
SB 42 (Southbury)	18.98	22	21.38	21.14	12.30	1996	21.14	2001	14.84		1993
SC 19 (Scotland)	2.75	25	8.10	11.55	1.89	1996	11.55	2001	7.33		1983
SC 20 (Scotland)	8.11	25	10.81	11.43	3.07	1996	11.43	2001	9.93		1983
SC 21 (Scotland)	0.76	25	0.86	1.51	+0.23	1996	1.65	1994	0.85		1983
SC 22 (Scotland)	12.48	25	13.69	14.31	10.21	1996	15.34	2000	13.68		1984
SC 23 (Scotland)	1.71	25	1.71	2.60	1.56	1996	2.70	1994	2.14		1983
SM 7 (Salem)	11.36	26	13.26	13.41	8.07	1989	13.75	1997	12.00		1979
SW 64 (S. Windsor)	12.35	25	12.90	12.91	8.29	1989	15.08	1965	12.25		1934
SY 15 (Salisbury)	15.61	22	15.55	16.25	12.50	1995	16.94	1997	15.07		1966
SY 23 (Salisbury)	5.28	22	10.62	15.44	4.65	1995	15.44	2001	6.48		1987
SY 24 (Salisbury)	12.30	22	14.62	17.25	9.89	1989	17.25	2001	12.80		1986
WB 93 (Waterbury)	--		26.90	28.35	24.08	1998	28.57	1964	27.40		1943
WB 198 (Waterbury)	--		19.20	21.71	9.53	1955	21.71	2001	16.86		1943
WY 1 (Woodbury)	27.17	22	28.07	29.05	19.68	1955	33.10	1914	28.77		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