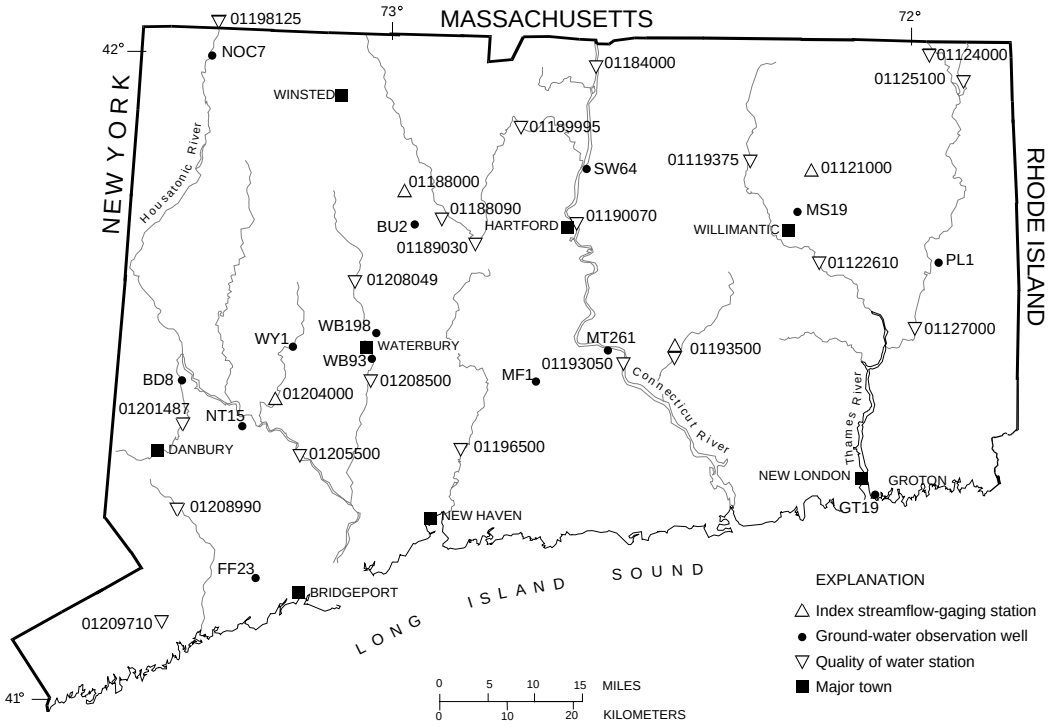
U.S. Department of the Interior
U.S. Geological Survey

WATER-RESOURCES CONDITIONS IN CONNECTICUT, OCTOBER 2000

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

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

Streamflows in October were in the below-normal to normal range for the entire State. Flow in Mount Hope River (NE Connecticut) fell to the below-normal range after being in the normal range for three consecutive months. Flows in Burlington Brook (NW Connecticut) and Pomperaug River (SW Connecticut) remained in the normal range for the second consecutive month. Flows in Salmon River (SE Connecticut) fell to the below-normal range after being in the normal range for one month. Across the State, mean streamflow for October averaged 64 percent of the October long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	OCT. 2000 MEAN	SEPT. 2000 MEAN	OCT. 1999 MEAN	OCT. MAXIMUM VALUE (year recorded)		OCT. MINIMUM VALUE (year recorded)		OCT. MEDIAN (1961-90)
MT HOPE RIVER (01121000)	7.36	12.0	21.8	144	1956	3.44	1958	18.8
BURLINGTON (01188000)	2.21	2.76	7.24	37.6	1956	1.02	1942	4.82
SALMON RIVER (01193500)	34.3	52.7	125	734	1956	12.4	1931	60.1
POMPERAUG (01204000)	34.1	46.4	108	625	1956	10.4	1936	36.3

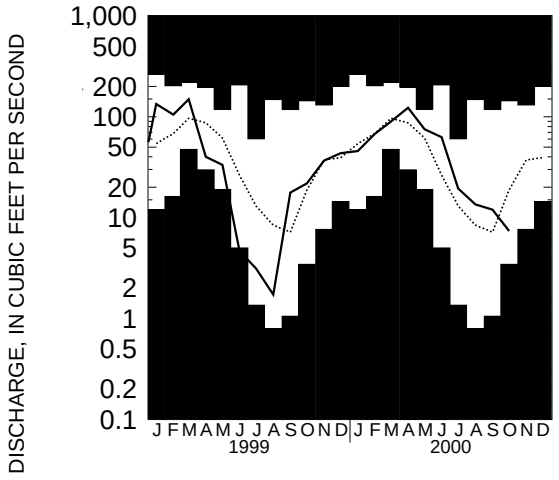
MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

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

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

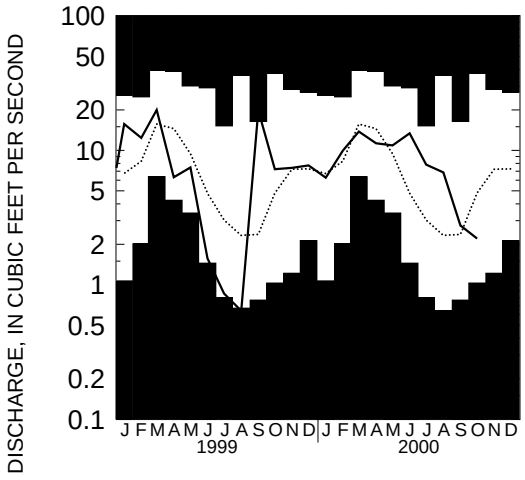
MOUNT HOPE RIVER NEAR WARRENVILLE

28.6 sq. mi. Record began July 1940



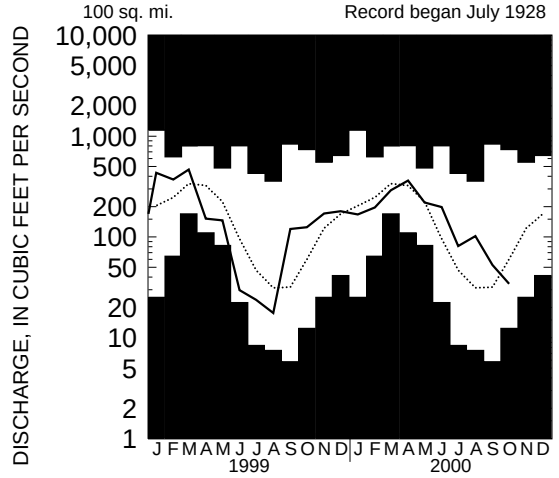
BURLINGTON BROOK NEAR BURLINGTON

4.10 sq. mi. Record began Sept. 1931



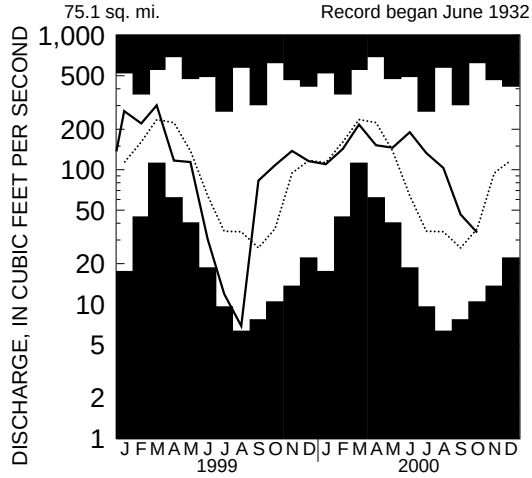
SALMON RIVER NEAR EAST HAMPTON

100 sq. mi. Record began July 1928



POMPERAUG RIVER AT SOUTHBURY

75.1 sq. mi. Record began June 1932



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

→ PROVISIONAL DATA ←

[**Station locations** shown on front page; **--**, not applicable; **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 2000	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in µS/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	SITE NOT SAMPLED THIS MONTH							
01122610 Shetucket R. at South Windham	10/16	121/- -	123	14.0	9.7/93	7.32	188	56
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	10/5	6440/77	148	16.0	9.1/92	7.55	116	27
01188090 Farmington R. at Unionville	10/18	610/37	72	12.5	10.2/94	7.47	9 K	14 K
01189030 Pequabuck R. at Farmington	10/3	40.4/- -	302	15.0	8.3/83	7.27	40	51
01189995 Farmington R. at Tariffville	10/18	740/49	105	12.5	10.0/93	7.28	1560	92
01190070 Connecticut R. at Hartford	10/4	- - / - -	152	16.5	8.9/92	7.45	112	24
01193050 Connecticut R. at Middle Haddam	10/4	- - / - -	160	17.0	9.1/94	7.50	900	5 K
01193500 Salmon R. near East Hampton	10/11	30.9/81	109	10.5	11.7/97	7.46	3 K	13 K
01196500 Quinnipiac R. at Wallingford	10/20	112/63	372	12.0	8.7/80	7.63	11200 K	2600
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	10/23	3.99/84	230	10.0	11.4/100	8.01	6 K	64 K
01209710 Norwalk R. near Winnipauk	10/23	4.40/- -	352	11.5	11.7/105	7.89	118	7 K

GROUND-WATER LEVELS

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

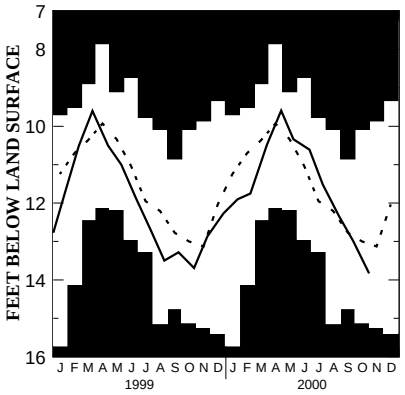
Shaded area on graphs show highest and lowest water levels of record through calendar year 1999.

Solid line shows current water levels.

Dashed line is monthly median for period of record through calendar year 1999.

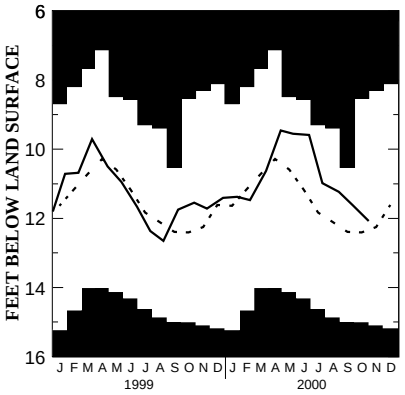
MANSFIELD

MS 19 Record began 1958



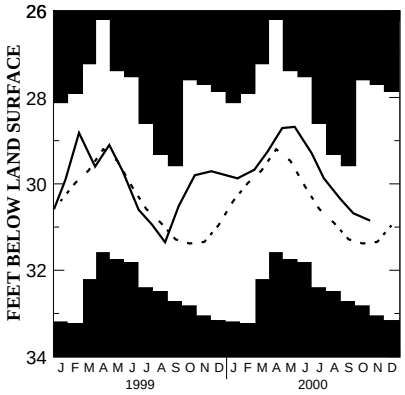
SOUTH WINDSOR

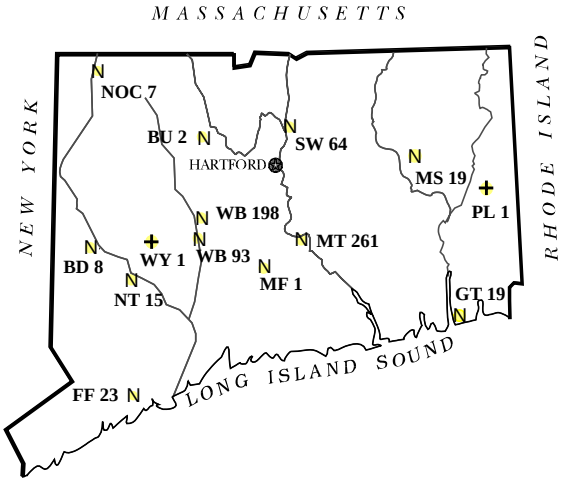
SW 64 Record began 1934



PLAINFIELD

PL 1 Record began 1942





ABOVE NORMAL

Within the highest 25% of record for this month.

NORMAL RANGE

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

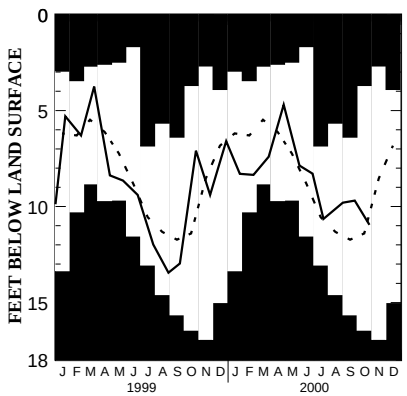
N

BELOW NORMAL

Within the lowest 25% of record for this month.

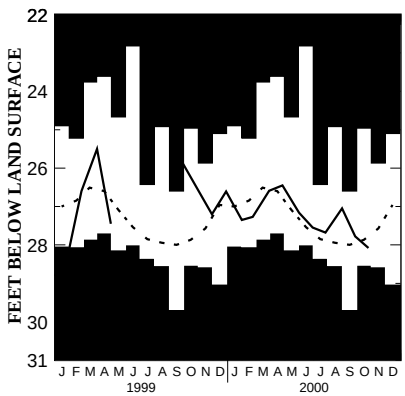
MIDDLEFIELD

MF 1 Record began 1946



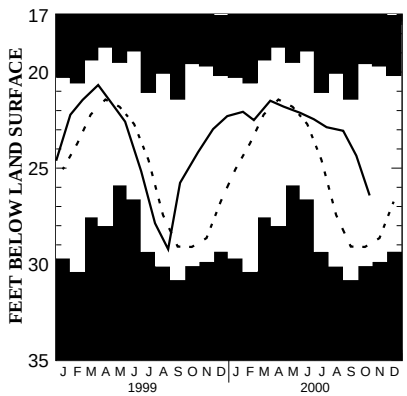
WATERBURY

WB 93 Record began 1943



WOODBURY

WY 1 Record began 1913



GROUND-WATER LEVELS

Two high and six low ground-water levels were recorded for the month of October.

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 1999). Ground-water level data collected by USGS personnel and individual observers.

	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE										
WELL NUMBER AND TOWN	OCT. 2000 (DATE)		SEPT. 2000	OCT. 1999	OCT. MAX (YR RECORDED)		OCT. MIN (YR RECORDED)		OCT. MEDIAN	NEW RE-CORD	YR RECORD BEGAN
BD 8 (Brookfield)	31.36	25	30.86	30.09	27.61	1975	33.09	1998	32.08		1966
BU 2 (Burlington)	28.74	30	28.23	30.04	16.01	1955	35.28	1964	29.85		1946
BU 143 (Burlington)	9.99	30	8.87	3.97	3.79	1996	9.99	2000	NA	<	1996
BU 144 (Burlington)	2.68	30	2.66	2.40	2.40	1999	2.68	2000	NA	<	1996
CL 223 (Clinton)	8.55	31	7.00	5.37	5.37	1999	12.43	1997	8.67		1991
CL 224 (Clinton)	21.89	31	21.31	21.69	21.23	1992	23.11	1997	21.93		1991
CL 225 (Clinton)	8.01	31	7.65	5.89	5.75	1996	9.72	1997	6.77		1991
CO 335 (Colchester)	8.20	26	8.03	7.05	6.24	1989	8.20	2000	7.60	<	1986
CV 51 (Coventry)	6.12	30	5.38	5.54	4.60	1996	7.08	1997	5.57		1992
D 116 (Durham)	4.83	26	2.14	1.61	0.33	1989	8.84	1986	5.44		1986
D 117 (Durham)	11.68	26	10.64	11.24	6.69	1996	13.84	1986	11.48		1986
D 119 (Durham)	1.05	26	0.41	0.25	0.15	1989	2.69	1986	1.12		1986
D 120 (Durham)	2.65	26	2.32	2.28	1.40	1989	3.56	1986	2.60		1986
EL 82 (Ellington)	6.24	30	6.11	5.89	5.62	1995	6.40	1997	6.18		1987
EL 139 (Ellington)	DRY	30	30.32	24.75	22.62	1995	DRY	2000	24.75	<	1993
EL 140 (Ellington)	20.20	30	19.15	16.35	12.94	1995	21.04	1997	16.39		1993
EW 133 (East Windsor)	5.43	30	5.35	5.18	4.58	1989	5.66	1988	5.38		1986
EW 134 (East Windsor)	50.97	30	50.69	51.63	49.48	1989	51.63	1999	51.15		1986
FF 23 (Fairfield)	8.21	25	7.77	7.85	7.03	1989	9.12	1997	8.02		1966
FF 30 (Fairfield)	4.58	25	2.20	8.85	1.25	1996	12.41	1995	9.39		1993
FF 31 (Fairfield)	9.98	25	7.34	8.50	4.43	1996	12.41	1998	8.66		1993
FF 32 (Fairfield)	7.26	25	6.34	7.68	5.82	1996	13.44	1998	10.92		1993
FF 33 (Fairfield)	5.51	25	4.91	5.32	4.68	1996	6.65	1994	5.75		1993
GR 328 (Granby)	14.93	30	13.71	11.99	11.83	1995	17.18	1988	15.34		1981
GR 329 (Granby)	7.05	30	6.59	4.63	3.75	1996	13.08	1988	10.82		1982
GR 330 (Granby)	2.85	30	2.84	2.41	2.40	1996	4.12	1982	3.63		1982
GR 331 (Granby)	10.93	30	10.64	5.74	5.74	1999	11.38	1988	10.46		1983
GT 19 (Groton)	16.74	30	15.46	15.00	12.90	1977	17.80	1963	16.50		1958
HM 445 (Hamden)	27.32	25	24.67	23.49	23.49	1999	32.25	1993	29.98		1988
HM 446 (Hamden)	3.35	25	3.51	3.32	3.32	1999	3.97	1994	NA		1993
HM 447 (Hamden)	3.01	25	2.97	2.74	2.52	1995	3.76	1997	NA		1993
HM 448 (Hamden)	13.73	25	13.45	13.10	12.22	1993	14.38	1997	NA		1993
HM 449 (Hamden)	18.31	25	16.01	14.90	14.90	1999	20.25	1997	NA		1993
HM 450 (Hamden)	13.44	25	13.32	12.57	12.43	1993	13.53	1997	NA		1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	OCT. 2000 (DATE)		SEPT. 2000	OCT. 1999	OCT. MAX (YR RECORDED)		OCT. MIN (YR RECORDED)		OCT. MEDIAN		
MB 32 (Marlborough)	7.75	26	6.45	4.25	1.36	1989	10.80	1997	7.68		1986
MB 35 (Marlborough)	14.75	26	13.90	15.00	9.55	1996	18.74	1993	15.00		1993
MB 36 (Marlborough)	5.83	26	5.09	3.10	2.64	1996	8.93	1997	5.66		1993
MF 1 (Middlefield)	10.95	26	9.69	7.09	3.70	1989	16.44	1964	11.40		1946
MS 19 (Mansfield)	13.83	30	12.98	13.69	10.08	1977	15.12	1965/66	13.22		1958
MS 44 (Mansfield)	6.00	30	3.39	2.49	0.77	1990	9.63	1997	5.91		1982
MS 45 (Mansfield)	13.59	30	12.91	12.79	11.65	1996	13.97	1997	13.07		1987
MS 46 (Mansfield)	14.77	30	14.68	14.35	13.29	1996	14.77	2000	14.34	<	1987
MS 74 (Mansfield)	8.27	30	7.15	8.10	2.73	1996	10.85	1997	8.16		1992
MS 75 (Mansfield)	15.19	30	12.43	17.62	12.87	1996	19.83	1997	18.40		1992
MS 76 (Mansfield)	30.90	30	30.63	34.00	30.90	2000	35.92	1993	34.59	>	1992
MS 77 (Mansfield)	8.04	30	6.90	7.73	2.70	1996	10.68	1997	7.86		1993
MT 261 (Middletown)	22.64	26	21.40	22.61	19.48	1989	26.92	1964	23.79		1956
NHV 201 (North Haven)	16.20	25	15.68	16.64	14.83	1989	18.25	1986	16.72		1975
NHV 202 (North Haven)	42.73	25	41.75	47.91	42.73	2000	59.54	1985	51.00	>	1975
NOC 7 (North Canaan)	9.72	14	9.70	9.38	8.20	1983	10.54	1997	9.72		1958
NSN 77 (N. Stonington)	14.06	31	12.98	13.75	10.09	1996	17.33	1993	14.36		1991
NSN 78 (N. Stonington)	4.96	31	4.67	4.18	3.85	1996	5.03	1993	4.28		1991
NT 15 (Newtown)	7.78	25	6.59	4.46	1.88	1975	11.14	1988	7.86		1966
PL 1 (Plainfield)	30.85	31	30.68	29.80	27.59	1955	32.80	1965	31.40		1942
SB 30 (Southbury)	20.32	25	19.52	19.70	16.90	1996	22.13	1995	20.53		1979
SB 39 (Southbury)	7.67	25	7.38	6.64	4.96	1996	7.68	1997	7.26		1991
SB 41 (Southbury)	52.16	25	50.86	50.72	45.65	1996	54.72	1995	50.10		1991
SB 42 (Southbury)	17.22	25	15.89	13.96	12.10	1996	19.30	1997	15.61		1993
SC 19 (Scotland)	9.89	31	8.84	2.85	2.01	1996	11.44	1997	8.73		1983
SC 20 (Scotland)	10.78	31	10.06	7.72	4.72	1996	11.76	1993	9.89		1983
SC 21 (Scotland)	1.55	31	1.33	0.89	0.40	1996	1.74	1997	0.94		1983
SC 22 (Scotland)	14.13	31	13.74	12.60	11.05	1996	14.57	1993	13.61		1984
SC 23 (Scotland)	2.99	31	2.77	2.21	1.38	1993	2.99	2000	2.35	<	1983
SM 7 (Salem)	12.62	31	11.97	12.41	7.40	1989	13.90	1997	13.20		1979
SW 64 (S. Windsor)	12.08	30	11.62	11.55	8.53	1975	14.99	1966	12.53		1934
SY 15 (Salisbury)	13.96	26	13.19	15.13	13.63	1989	16.99	1993	15.33		1966
SY 23 (Salisbury)	7.45	26	7.10	6.30	4.55	1989	16.11	1993	9.23		1987
SY 24 (Salisbury)	12.85	26	12.47	13.76	9.95	1989	18.77	1997	14.23		1986
WB 93 (Waterbury)	28.08	25	27.78	26.52	24.24	1998	28.53	1964	27.85		1943
WB 198 (Waterbury)	17.35	25	15.53	14.45	9.04	1955	21.76	1988	17.50		1943
WY 1 (Woodbury)	26.42	25	24.35	24.17	19.56	1955	33.00	1914	29.16		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