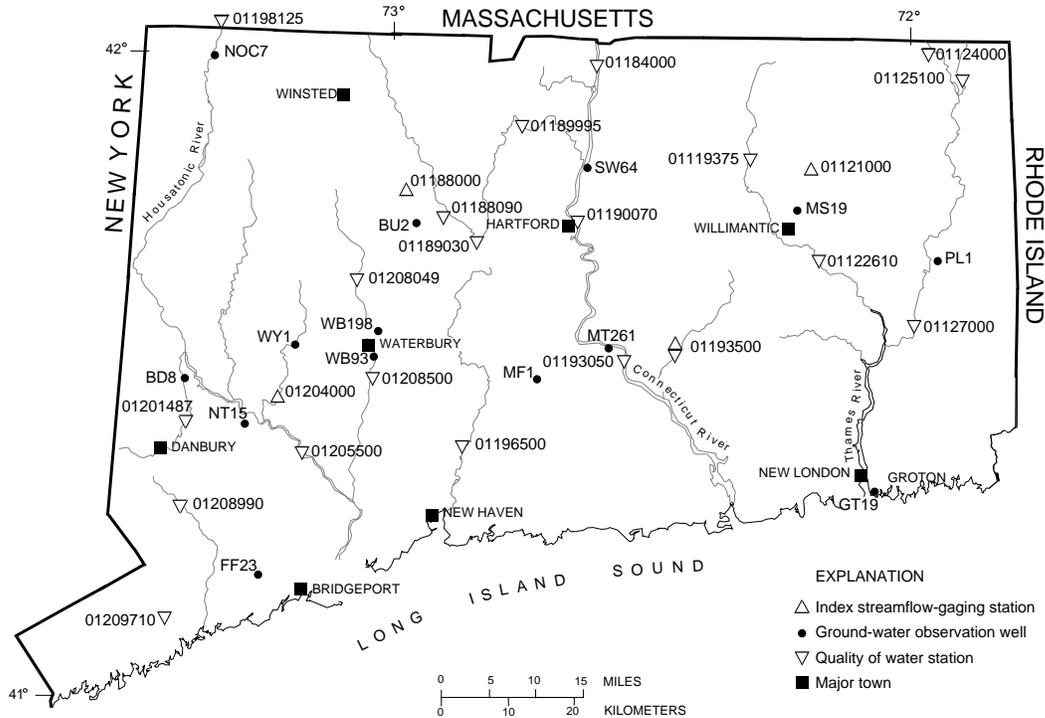


**U.S. Department of the Interior
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, SEPTEMBER 2001**

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
Streamflow	2	Ground Water	4

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

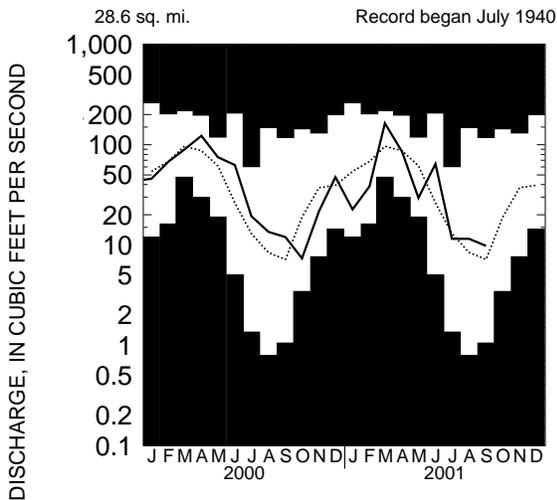
Streamflow across the State was in the normal range. Flow at all stations—Mount Hope River (NE Connecticut), Burlington Brook (NW Connecticut), and Pomperaug River (SW Connecticut) remained in the normal range for the third consecutive month. Salmon River (SE Connecticut) fell to the below normal range from the normal range. Across the State, mean streamflow for September averaged 99.75 percent of the September long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	SEPT. 2001 MEAN	AUG 2001 MEAN	SEPT. 2000 MEAN	SEPT. MAXIMUM VALUE (year recorded)		SEPT. MINIMUM VALUE (year recorded)		
MT HOPE RIVER (01121000)	9.79	11.5	12.0	118	1954	1.05	1953	7.17
BURLINGTON (01188000)	2.24	1.47	2.76	16.4	1934	0.77	1964	2.37
SALMON RIVER (01193500)	19.1	26.5	52.7	834	1938	5.80	1943	31.8
POMPERAUG (01204000)	43.3	27.4	46.4	341	2001	7.66	1953	26.2

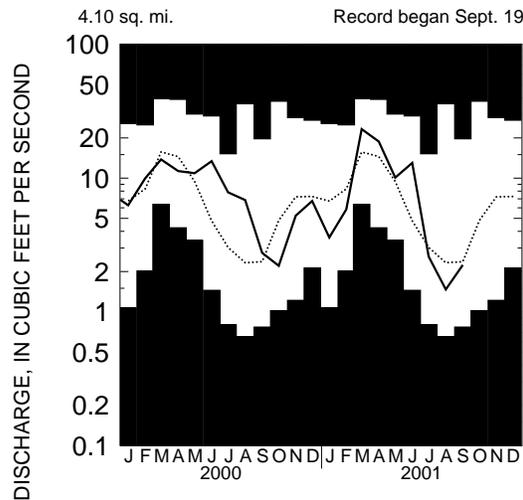
MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

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

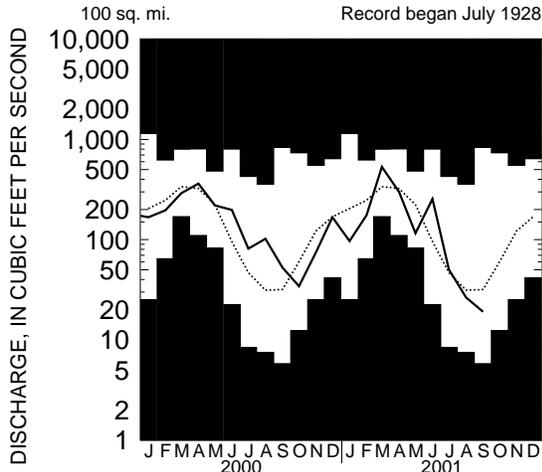
MOUNT HOPE RIVER NEAR WARRENVILLE



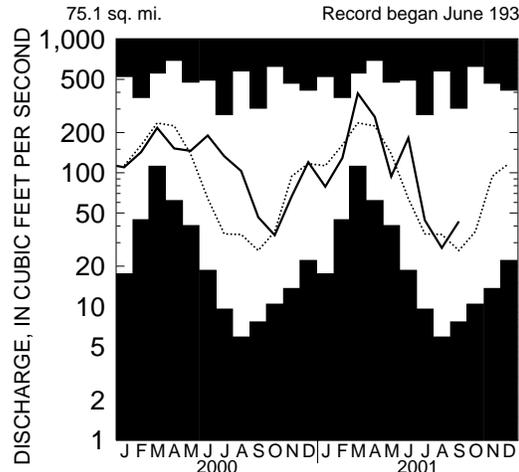
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHBURY



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

PROVISIONAL DATA

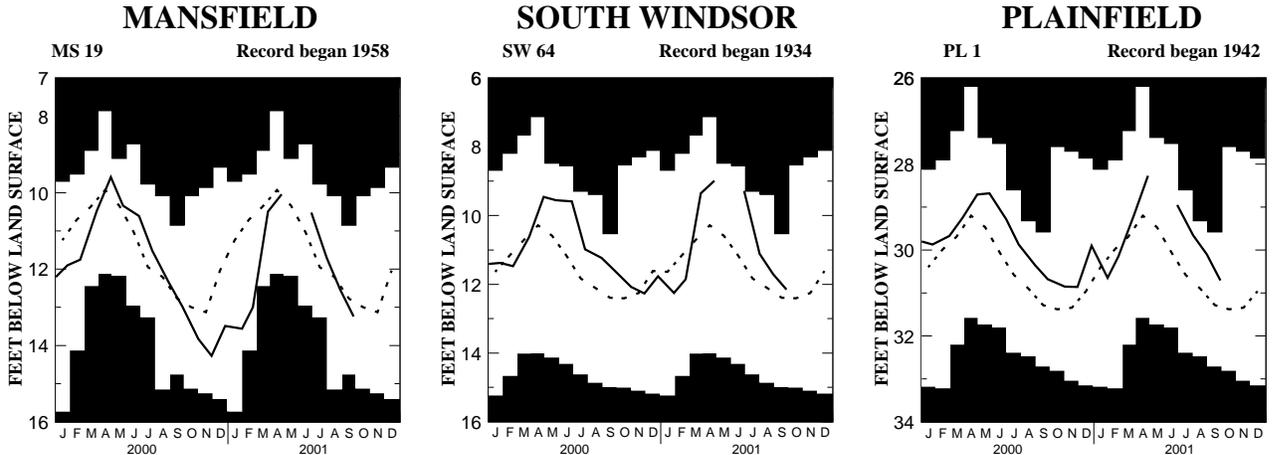
[Station locations shown on front page; - -, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data 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 2001	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	9/12	12.7/ - -	201	18.5	8.9/ 96	7.4	15 K	37
01122610 Shetucket R. at South Windham	9/26	119/ - -	142	20.0	10.3/ 114	8.0	128	100
01124000 Quinebaug R. at Quinebaug	9/24	37.5/ 89	234	19.5	8.2/ 90	7.7	740	1000
01125100 French R. at North Grosvenordale	9/24	22.3/ - -	348	22.0	9.5/ 109	8.7	1060	480
01127000 Quinebaug R. at Jewett City	9/26	176/ 94	164	20.5	8.1/ 90	7.8	80	84
01184000 Connecticut R. at Thompsonville	9/27	10740/ 53	146	19.5	8.0/ 89	7.6	100	24
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	9/18	26.6/ - -	392	16.5	7.2/ 74	7.4	212	184
01189995 Farmington R. at Tariffville	9/18	225/ 97	194	18.5	9.3/ 100	7.6	35	56
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	9/10	66.2/ 87	433	22.0	7.5/ 85	7.6	440	48
01198125 Housatonic R. near Ashley Falls, MA	9/19	102/ - -	459	18.0	7.8/ 84	8.3	53	33
01201487 Still R. at Rt. 7 at Brookfield Center	9/5	27.5/ - -	538	20.5	8.1/ 91	7.8	2000	720
01205500 Housatonic R. at Stevenson	SITE NOT SAMPLED THIS MONTH							
01208049 Naugatuck R. near Waterville	9/6	16.7/ - -	410	24.5	9.2/ 111	7.8	15 K	2 K
01208500 Naugatuck R. at Beacon Falls	9/6	47.1/ 98	498	21.5	11.2/ 126	8.7	170	29 K
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	9/4	7.0/ - -	365	20.0	15.9/ 175	9.2	192	47

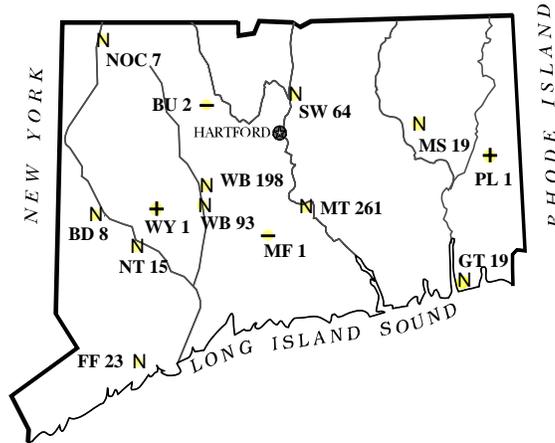
GROUND-WATER LEVELS

(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 2000.
-  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.



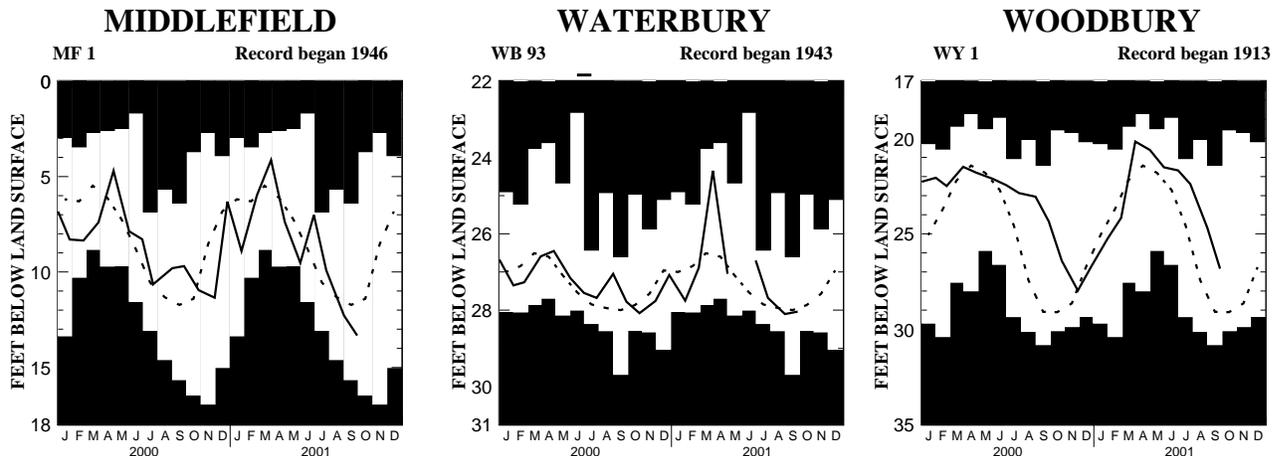
NORMAL RANGE

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



BELOW NORMAL

Within the lowest 25% of record for this month.



GROUND-WATER LEVELS

Two record high and six record low ground-water levels were recorded during September 2001.

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	YR RECORD BEGAN
	SEPT. 2001 (DATE)	AUG. 2001	SEPT. 2000	SEPT. MAX (YR RECORDED)	SEPT. MIN (YR RECORDED)	SEPT. MEDIAN					
BD 8 (Brookfield)	31.81	26	31.38	30.86	29.80	1971	33.25	1995	31.70		1966
BU 2 (Burlington)	36.59	25	31.46	28.23	20.37	1969	36.59	2001	26.88	<,<<	1946
BU 143 (Burlington)	9.88	25	9.95	8.87	6.30	1999	10.40	1998	NA		1996
BU 144 (Burlington)	2.13	25	1.83	2.66	2.13	2001	2.84	1997	NA	>,>>	1996
CL 223 (Clinton)	9.39	27	8.14	7.00	5.24	1992	11.06	1997	9.30		1991
CL 224 (Clinton)	21.64	27	21.14	21.31	21.31	2000	22.47	1995	21.80		1991
CL 225 (Clinton)	7.34	27	6.62	7.65	4.23	1998	9.59	1995	7.22		1991
CO 335 (Colchester)	8.28	28	8.90	8.03	6.87	1998	8.52	1986	8.02		1986
CV 51 (Coventry)	6.65	25	6.19	5.38	5.02	1996	6.99	1997	5.78		1992
D 116 (Durham)	8.96	28	7.64	2.14	1.80	1989	10.04	1995	6.71		1986
D 117 (Durham)	12.18	28	12.27	10.64	10.64	2000	14.12	1995	12.36		1986
D 119 (Durham)	1.01	28	1.16	0.41	0.41	2000	3.07	1986	2.24		1986
D 120 (Durham)	3.22	28	2.80	2.32	2.32	2000	3.76	1986	3.31		1986
EL 82 (Ellington)	6.26	25	6.29	6.11	5.72	1999	6.52	1995	6.35		1987
EL 139 (Ellington)	DRY	25	31.35	30.32	26.93	1999	DRY	2001	30.42	<,<<	1993
EL 140 (Ellington)	20.06	25	19.44	19.15	14.57	1999	20.06	2001	19.44	<	1993
EW 133 (East Windsor)	5.43	25	5.55	5.35	4.71	1991	6.66	1986	5.56		1986
EW 134 (East Windsor)	51.21	25	50.93	50.69	49.60	1987	51.65	1995	51.04		1986
FF 23 (Fairfield)	8.26	26	8.28	7.77	6.73	1989	8.79	1967	8.30		1966
FF 30 (Fairfield)	9.46	26	8.37	2.20	2.20	2000	12.70	1995	11.32		1993
FF 31 (Fairfield)	10.70	26	11.16	7.34	6.80	1996	12.95	1995	10.34		1993
FF 32 (Fairfield)	8.84	26	9.19	6.34	5.57	1996	14.01	1995	11.70		1993
FF 33 (Fairfield)	5.57	26	5.93	4.91	4.91	2000	8.13	1996	7.08		1993
GR 328 (Granby)	14.28	25	14.39	13.71	12.21	1999	16.58	1995	14.73		1981
GR 329 (Granby)	9.97	25	10.21	6.59	2.49	1999	12.71	1995	10.62		1982
GR 330 (Granby)	3.02	25	3.24	2.84	2.15	1999	4.76	1995	4.08		1982
GR 331 (Granby)	11.73	25	12.14	10.64	8.40	1999	13.30	1983	11.34		1983
GT 19 (Groton)	16.30	30	16.17	15.46	11.59	1961	17.66	1963	16.57		1958
HM 445 (Hamden)	30.39	26	27.61	24.67	24.67	2000	32.74	1993	29.29		1988
HM 446 (Hamden)	3.80	26	3.95	3.51	3.51	2000	4.11	1995	NA		1993
HM 447 (Hamden)	3.39	26	3.45	2.97	2.97	2000	3.65	1997	NA		1993
HM 448 (Hamden)	13.98	26	13.96	13.45	13.41	1999	14.48	1995	NA		1993
HM 449 (Hamden)	20.08	26	19.76	16.01	14.70	1999	21.02	1994	NA		1993
HM 450 (Hamden)	DRY	26	13.65	13.32	11.90	1999	DRY	2001	NA	<,<<	1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	SEPT. 2001 (DATE)		AUG. 2001	SEPT. 2000	SEPT. MAX (YR RECORDED)		SEPT. MIN (YR RECORDED)		SEPT. MEDIAN		
MB 32 (Marlborough)	9.77	28	8.38	6.45	3.97	1989	10.46	1995	8.37		1986
MB 35 (Marlborough)	16.61	28	15.42	13.90	13.90	2000	17.21	1995	16.66		1993
MB 36 (Marlborough)	9.09	28	8.21	5.09	4.86	1996	9.09	2001	7.10	<	1993
MF 1 (Middlefield)	13.33	28	12.28	9.69	6.80	1954	15.64	1964	11.69		1946
MS 19 (Mansfield)	13.24	25	12.55	12.98	11.37	1989	14.75	1966	12.77		1958
MS 44 (Mansfield)	8.13	25	7.51	3.39	1.56	1991	10.58	1995	7.17		1982
MS 45 (Mansfield)	14.00	25	13.64	12.91	12.69	1996	14.13	1995	13.16		1987
MS 46 (Mansfield)	14.76	25	14.50	14.68	10.93	1999	16.91	1995	14.23		1987
MS 74 (Mansfield)	9.90	25	8.81	7.15	6.59	1996	9.96	1997	9.35		1992
MS 75 (Mansfield)	15.22	25	12.73	12.43	12.43	2000	20.25	1995	16.60		1992
MS 76 (Mansfield)	DRY	25	DRY	30.63	30.63	2000	DRY	1998/01	33.90	<,<<	1992
MS 77 (Mansfield)	9.74	25	8.75	6.90	6.36	1996	10.10	1993	9.35		1993
MT 261 (Middletown)	24.13	28	22.71	21.40	20.65	1971	26.10	1995	23.69		1956
NHV 201 (North Haven)	16.72	26	16.35	15.68	15.65	1978	17.95	1986	16.63		1975
NHV 202 (North Haven)	40.25	26	40.26	41.75	40.25	2001	59.51	1995	52.56	>	1975
NOC 7 (North Canaan)	9.99	29	10.36	9.70	8.69	1977	10.75	1993	9.98		1958
NSN 77 (N. Stonington)	15.07	27	14.37	12.98	12.98	2000	17.15	1993	15.68		1991
NSN 78 (N. Stonington)	4.81	27	5.18	4.67	4.27	1996	5.54	1997	4.68		1991
NT 15 (Newtown)	7.45	26	8.81	6.59	4.52	1971	10.75	1995	7.78		1966
PL 1 (Plainfield)	30.71	27	30.10	30.68	29.58	1954	32.70	1966	31.28		1942
SB 30 (Southbury)	21.10	26	20.50	19.52	19.06	1994	22.55	1995	21.00		1979
SB 39 (Southbury)	7.08	26	7.73	7.38	4.33	1999	8.23	1995	7.22		1991
SB 41 (Southbury)	53.30	26	52.81	50.86	47.13	1994	56.06	1999	50.51		1991
SB 42 (Southbury)	20.72	26	19.76	15.89	13.67	1994	24.09	1995	18.50		1993
SC 19 (Scotland)	10.55	27	9.81	8.84	3.66	1999	11.60	1995	8.93		1983
SC 20 (Scotland)	10.10	27	9.18	10.06	7.99	1985	11.15	1993	9.36		1983
SC 21 (Scotland)	1.13	27	0.86	1.33	0.75	1985	2.11	1995	1.12		1983
SC 22 (Scotland)	13.62	27	13.09	13.74	12.43	1985	14.86	1995	13.62		1984
SC 23 (Scotland)	2.52	27	2.44	2.77	2.32	1998	2.99	1995	2.55		1983
SM 7 (Salem)	13.07	27	12.40	11.97	10.55	1985	13.55	1993	13.12		1979
SW 64 (S. Windsor)	12.15	25	11.71	11.62	10.53	1973	14.98	1966	12.36		1934
SY 15 (Salisbury)	14.99	28	13.91	13.19	13.19	2000	16.34	1993/95	15.05		1966
SY 23 (Salisbury)	13.12	28	11.15	7.10	6.02	1996	17.37	1993	10.18		1987
SY 24 (Salisbury)	16.32	28	14.53	12.47	12.02	1994	19.20	1995	15.10		1986
WB 93 (Waterbury)	28.04	26	28.10	27.78	26.60	1971	29.68	1962	28.00		1943
WB 198 (Waterbury)	18.96	26	17.00	15.53	12.30	1954	21.28	1995	17.23		1943
WY 1 (Woodbury)	26.83	26	24.69	24.35	21.41	1955	32.30	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