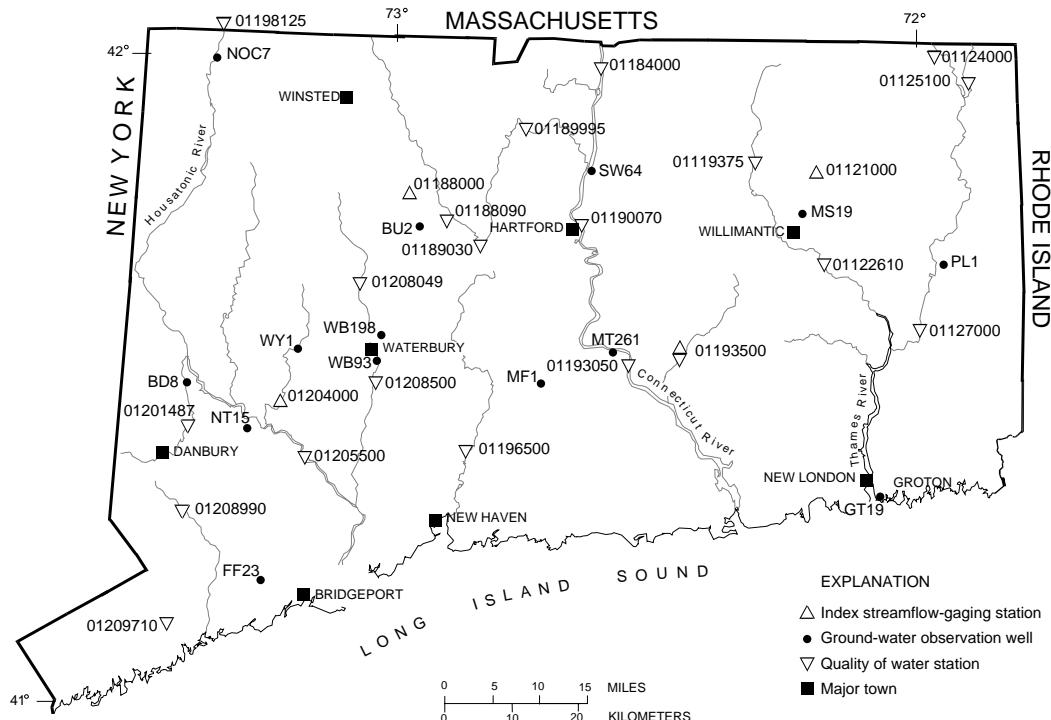


U.S. Department of the Interior U.S. Geological Survey



WATER-RESOURCES CONDITIONS IN CONNECTICUT, SEPTEMBER 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 above-normal range. Flows at Burlington Brook (NW Connecticut) and Pomperaug River (SW Connecticut) remained in the above-normal range for the 2nd consecutive month. Flow at Salmon River (SE Connecticut) rose to the above-normal range after 1 month in the normal range. Flows at Mount Hope River (NE Connecticut) remained in the above-normal range for the 4th consecutive month. Across the State, mean streamflow for September averaged 374 percent of the September long-term medians.

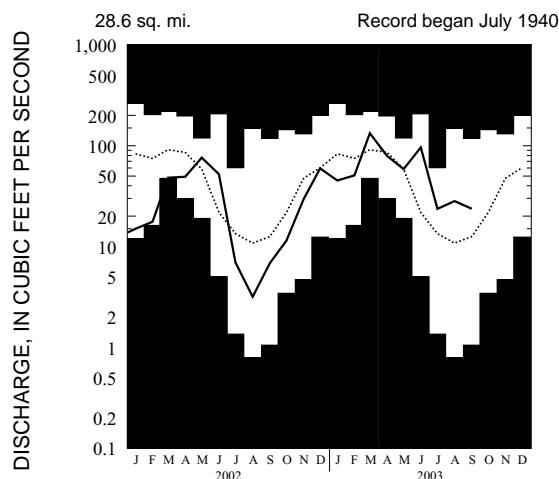
USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	SEPT. 2003 MEAN	AUG. 2003 MEAN	SEPT. 2002 MEAN	SEPT. MAXIMUM VALUE (year recorded)	SEPT. MINIMUM VALUE (year recorded)	SEPT. MEDIAN (1971-2000)
MT HOPE RIVER (01121000)	23.7	28.2	6.83	118	1954	12.5
BURLINGTON (01188000)	16.2	7.62	1.17	19.7	1999	2.65
SALMON RIVER (01193500)	126	50.8	45.3	834	1938	58.3
POMPERAUG (01204000)	173	111	19.6	304	1938	36.2

MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

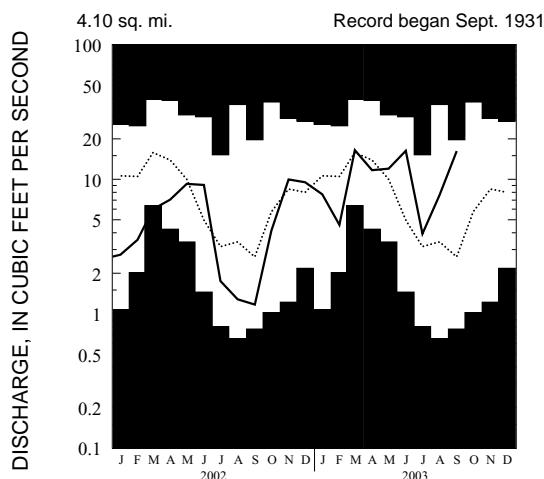
Shaded areas on graphs show highest and lowest monthly mean discharge of record.

— Current record Median (1971-2000)

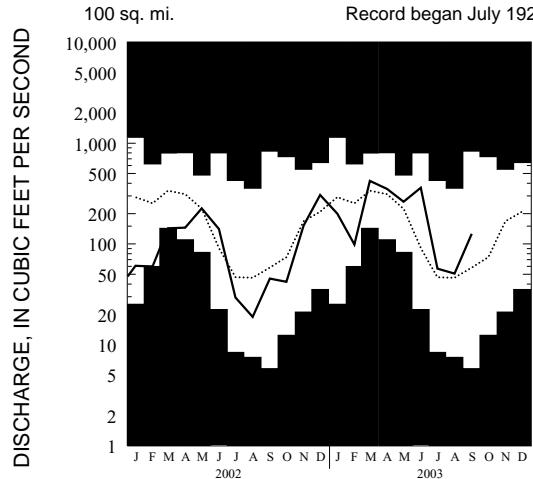
MOUNT HOPE RIVER NEAR WARRENVILLE



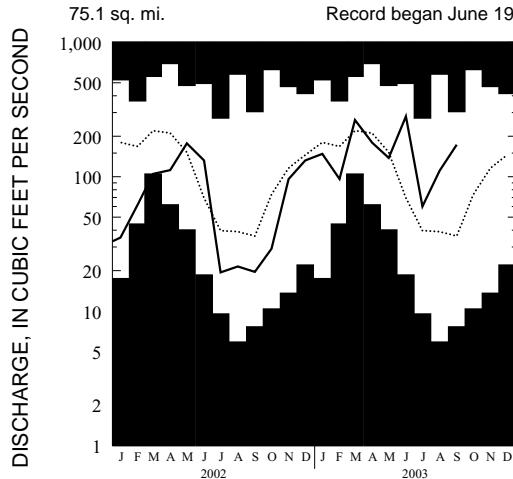
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHBURY



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

→ PROVISIONAL DATA ←

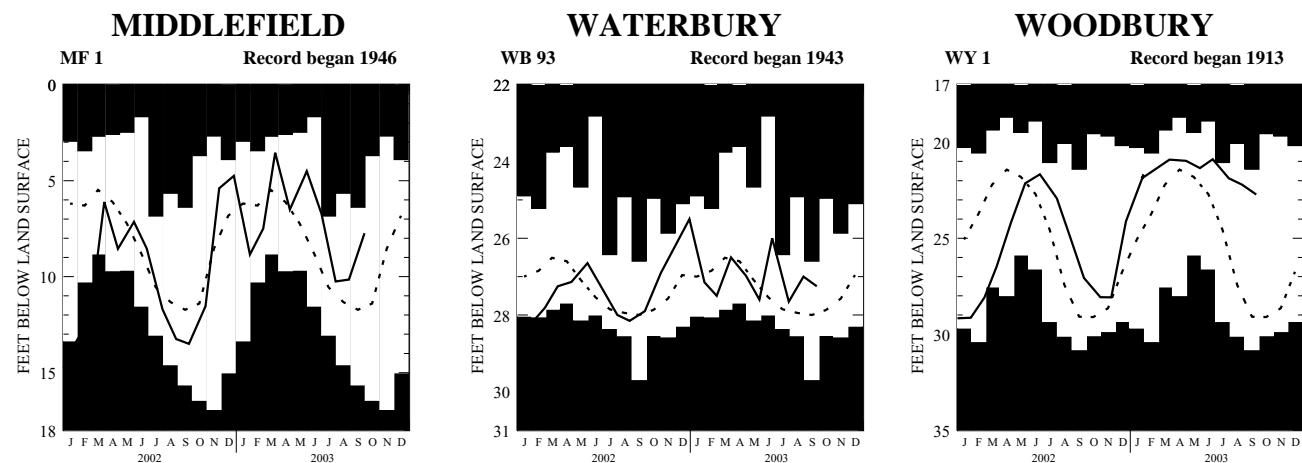
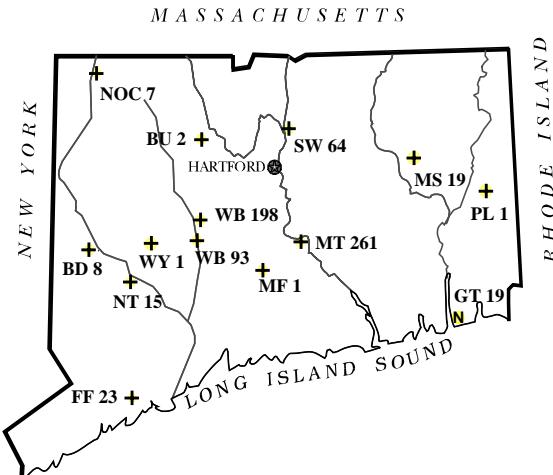
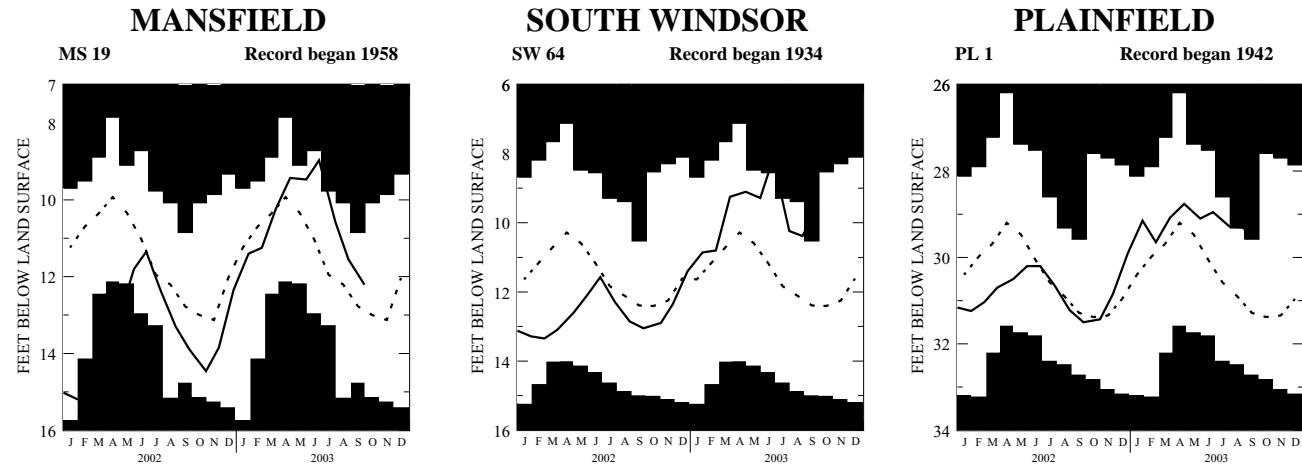
[Station locations shown on front page; --, not applicable; —, not available; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using 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 2003	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCANCE	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	E. COLI (COL/100 mL)
01119375 Willimantic R. at Merrow	9/09	29.9 / --	169	18.0	10.0/105	6.8	41	56
01122610 Shetucket R. at South Windham	9/03	773 / --	120	18.0	9.2 / 97	7.0	3600	4000
01124000 Quinebaug R. at Quinebaug	9/04	43.1 / 86	240	18.5	8.7 / 95	7.2	620	500
01125100 French R. at North Grosvenordale	9/04	57.0 / --	285	20.0	8.9 / 100	7.2	192	188
01127000 Quinebaug R. at Jewett City	9/03	1070 / 47	176	20.5	7.9 / 88	7.3	620	220
01184000 Connecticut R. at Thompsonville	9/25	21600 / 24	131	19.5	8.7 / 96	7.3	1080	780
01188090 Farmington R. at Unionville								
01189030 Pequabuck R. at Farmington	9/23	70.8 / --	256	17.5	7.5 / 79	7.2	660	152
01189995 Farmington R. at Tariffville	9/23	1020 / 39	132	18.5	9.0 / 99	7.0	1200	1220
01190070 Connecticut R. at Hartford								
01193050 Connecticut R. at Middle Haddam								
01193500 Salmon R. near East Hampton								
01196500 Quinnipiac R. at Wallingford	9/16	399 / 14	242	19.5	8.8 / 96	7.5	16,100 K	10,700 K
01198125 Housatonic R. near Ashley Falls, MA	9/22	410 / --	383	18.5	8.4 / 91	8.2	74 K	75
01201487 Still R. at Rt. 7 at Brookfield Center	9/18	84.0 / --	440	18.0	8.1 / 85	7.8	720	420
01205500 Housatonic R. at Stevenson								
01208049 Naugatuck R. near Waterville	9/11	87.4 / --	232	19.0	9.0 / 97	7.2	108	49
01208500 Naugatuck R. at Beacon Falls	9/10	221 / 63	284	17.0	9.3 / 96	7.5	144	128
01208990 Saugatuck R. near Redding								
01209710 Norwalk R. near Winnipauk	9/03	51.4 / --	305	17.5	9.7 / 101	7.9	—	—

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

25 record high ground-water levels were recorded during September 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. In some wells, measurements are made more frequently than monthly—this could cause the column labeled SEPT. MIN or SEPT. MAX to have a value in 2003 that is not the same as the one reported in the column labeled SEPT. 2003, which is the last measurement for the month. Statistics (median) 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
	SEPT. 2003 (DATE)	AUG. 2003	SEPT. 2002	SEPT. MAX (YR RECORDED)		SEPT. MIN (YR RECORDED)		SEPT. MEDIAN		
BD 8 (Brookfield)	30.48	24	30.12	32.44	29.80	1971	33.25	1995	31.69	
BU 2 (Burlington)	20.27	24	20.79	28.24	20.27	2003	33.72	1964	26.98	> 1946
BU 143 (Burlington)	7.03	24	8.22	10.19	6.30	1999	10.40	1998	9.34	
BU 144 (Burlington)	1.88	24	1.73	2.87	1.88	2003	2.87	2002	2.66	> 1996
CL 223 (Clinton)	7.80	26	7.64	9.07	6.47	1999	11.06	1997	9.22	
CL 224 (Clinton)	21.45	26	21.01	22.38	21.31	2000	22.47	1995	21.75	
CL 225 (Clinton)	6.10	26	6.71	7.12	4.23	1998	9.59	1995	7.26	
CO 335 (Colchester)	7.27	26	8.31	8.25	6.87	1998	8.52	1986	8.03	
CV 51 (Coventry)	4.25	29	5.12	6.85	4.25	2003	7.00	1995	5.62	> 1992
D 116 (Durham)	1.93	26	4.77	8.33	1.80	1989	10.04	1995	6.62	
D 117 (Durham)	10.09	26	11.78	11.95	10.09	2003	14.12	1995	12.35	> 1986
D 119 (Durham)	0.14	26	1.38	0.88	0.14	2003	3.07	1986	2.16	> 1986
D 120 (Durham)	2.51	26	2.88	2.83	2.32	2000	3.76	1986	3.27	
EL 82 (Ellington)	5.38	29	6.05	6.47	5.38	2003	6.52	1995	6.26	> 1987
EL 139 (Ellington)	28.14	29	27.59	DRY	28.14	2003	DRY	96,97,99,01,02	30.32	> 1993
EL 140 (Ellington)	16.57	29	18.41	20.91	14.57	1999	20.91	2002	19.44	
EW 133 (E. Windsor)	4.41	29	5.35	5.76	4.41	2003	6.66	1986	5.54	> 1986
EW 134 (E. Windsor)	50.55	29	50.45	52.20	49.60	1987	52.20	2002	51.04	
FF 23 (Fairfield)	7.85	25	8.32	8.28	6.73	1989	8.79	1967	8.27	
FF 30 (Fairfield)	5.83	25	6.33	8.45	2.20	2000	12.70	1995	10.12	
FF 31 (Fairfield)	9.02	25	10.92	10.64	6.80	1996	12.95	1995	9.95	
FF 32 (Fairfield)	7.67	25	8.20	7.56	5.57	1996	14.01	1995	11.50	
FF 33 (Fairfield)	5.00	25	5.81	5.35	4.91	2000	8.13	1996	6.73	
GR 328 (Granby)	13.28	24	13.33	16.62	12.21	1999	16.62	2002	14.69	
GR 329 (Granby)	3.17	24	6.15	11.48	2.49	1999	12.71	1995	9.86	
GR 330 (Granby)	2.04	24	2.98	3.38	2.04	2003	4.76	1995	4.06	> 1982
GR 331 (Granby)	8.69	24	10.07	12.86	8.40	1999	13.30	1983	11.29	
GT 19 (Groton)	16.35	28	16.10	16.33	11.59	1961	17.66	1963	16.54	
GW 21 (Greenwich)	24.77	29	26.11	34.59	24.77	2003	34.59	2002	NA	> 2002
GW-22 (Greenwich)	5.44	29	5.90	8.18	5.44	2003	8.18	2002	NA	> 2002
GW-23 (Greenwich)	23.65	29	32.05	43.55	23.65	2003	43.55	2002	NA	> 2002
HM 445 (Hamden)	27.15	25	24.90	31.90	24.67	2000	32.74	1993	29.03	
HM 446 (Hamden)	3.37	25	3.79	3.60	3.37	2003	4.11	1995	3.95	> 1993
HM 447 (Hamden)	2.85	25	3.25	3.47	2.85	2003	3.65	1997	3.64	> 1993
HM 448 (Hamden)	13.32	25	13.75	14.35	13.32	2003	14.48	1995	14.18	> 1993
HM 449 (Hamden)	14.64	25	17.60	19.66	14.64	2003	21.02	1994	18.46	> 1993
HM 450 (Hamden)	13.65	25	13.60	DRY	11.90	1999	DRY	2002	13.30	

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RECORD	YEAR RECORD BEGAN
	SEPT. 2003 (DATE)	AUG. 2003	SEPT. 2002	SEPT. MAX (YR RECORDED)	SEPT. MIN (YR RECORDED)	SEPT. MEDIAN				
MB 32 (Marlborough)	5.79	26	7.38	8.50	3.97	1989	10.46	1995	8.35	
MB 35 (Marlborough)	14.07	26	14.15	17.59	13.90	2000	17.59	2002	16.55	
MB 36 (Marlborough)	4.06	26	7.41	8.40	4.06	2003	9.09	2001	6.98	>
MF 1 (Middlefield)	7.74	29	10.15	13.50	6.80	1954	15.64	1964	11.68	
MS 19 (Mansfield)	12.21	29	11.55	13.90	11.37	1989	14.75	1966	12.78	
MS 44 (Mansfield)	1.56	29	3.94	5.96	1.56	1991/2003	10.58	1995	7.14	>
MS 45 (Mansfield)	10.56	29	12.48	14.88	10.56	2003	14.88	2002	13.09	>
MS 46 (Mansfield)	12.93	29	13.62	15.53	10.93	1999	16.91	1995	14.24	
MS 74 (Mansfield)	3.55	29	5.60	9.68	3.55	2003	9.96	1997	9.28	>
MS 75 (Mansfield)	9.44	29	8.99	14.69	9.44	2003	20.25	1995	15.42	>
MS 76 (Mansfield)	OBS	29	29.35	34.30	30.63	2000	35.29	1993	33.84	
MS 77 (Mansfield)	3.53	29	5.77	9.75	3.53	2003	10.10	1993	9.32	>
MS 80 (Mansfield)	16.82	29	16.92	NA	NA	NA	NA	NA	NA	2003
MT 261 (Middletown)	22.13	26	21.70	23.88	20.65	1971	26.10	1995	23.67	
NHV 201 (North Haven)	15.75	25	15.45	17.24	15.65	1978	17.95	1986	16.62	
NOC 7 (North Canaan)	9.06	30	9.67	10.07	8.69	1977	DRY	1995	9.97	
NSN 77 (N. Stonington)	13.19	26	12.77	16.15	12.98	2000	17.15	1993	15.54	
NSN 78 (N. Stonington)	4.93	26	5.30	5.00	4.27	1996	5.54	1997	4.68	
NT 15 (Newtown)	5.08	25	6.26	6.98	4.52	1971	10.75	1995	8.26	
PL 1 (Plainfield)	29.56	29	29.31	31.50	29.56	2003	32.70	1966	31.24	>
SB 30 (Southbury)	19.50	24	19.06	21.30	19.06	1994	22.55	1995	20.52	
SB 39 (Southbury)	6.29	24	7.30	7.98	4.33	1999	8.23	1995	7.30	
SB 41 (Southbury)	47.38	24	47.70	53.60	47.13	1994	56.06	1999	50.68	
SB 42 (Southbury)	16.23	24	15.57	22.60	13.67	1994	24.09	1995	17.51	
SC 19 (Scotland)	8.26	29	8.17	9.37	3.66	1999	11.60	1995	8.84	
SC 20 (Scotland)	9.60	29	8.84	10.35	7.99	1985	11.15	1993	9.38	
SC 21 (Scotland)	1.16	29	1.07	1.06	0.75	1985	2.11	1995	1.17	
SC 22 (Scotland)	13.44	29	12.96	13.87	12.43	1985	14.86	1995	13.66	
SC 23 (Scotland)	2.31	29	2.54	2.14	2.14	2002	2.99	1995	2.56	
SM 7 (Salem)	12.57	26	11.91	13.25	10.55	1985	13.55	1993	13.10	
SW 64 (S. Windsor)	9.50	29	10.38	13.05	9.50	2003	14.98	1966	12.36	>
SY 15 (Salisbury)	13.70	24	13.25	15.00	13.19	2000	16.34	1993/95	14.98	
SY 23 (Salisbury)	5.48	24	6.94	13.91	5.48	2003	17.37	1993	9.35	>
SY 24 (Salisbury)	12.12	24	11.51	17.30	12.02	1994	19.20	1995	14.24	
WB 93 (Waterbury)	27.25	25	27.00	27.90	25.70	1999	29.68	1962	28.00	
WB 198 (Waterbury)	14.38	25	13.62	23.20	12.30	1954	23.20	2002	17.22	
WY 1 (Woodbury)	22.72	24	22.21	27.07	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; --, not measured.