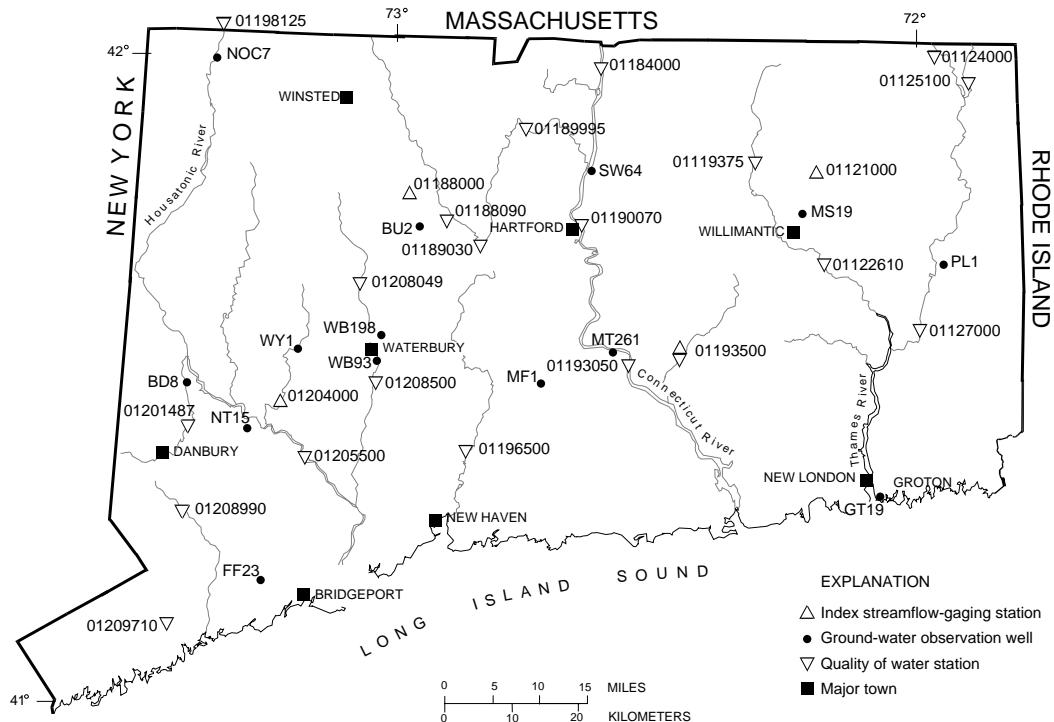


**U.S. Department of the Interior
U.S. Geological Survey**

**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, AUGUST 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

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

STREAMFLOW (measured in cubic feet per second)

→ PROVISIONAL DATA ←

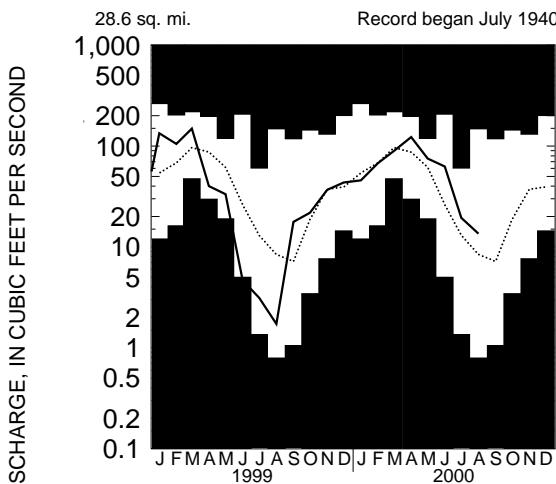
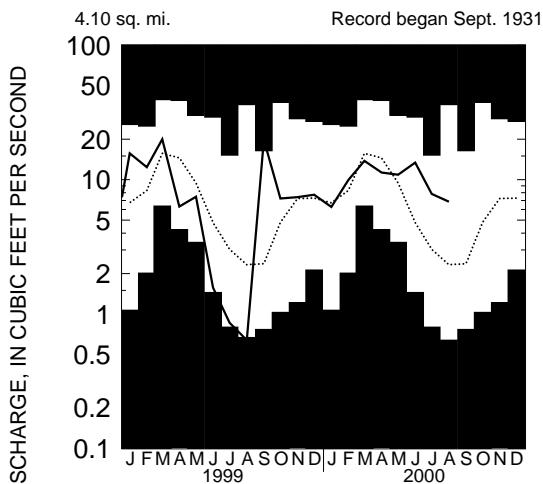
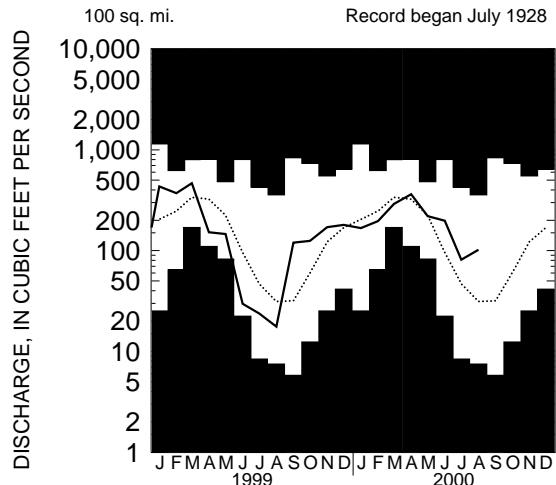
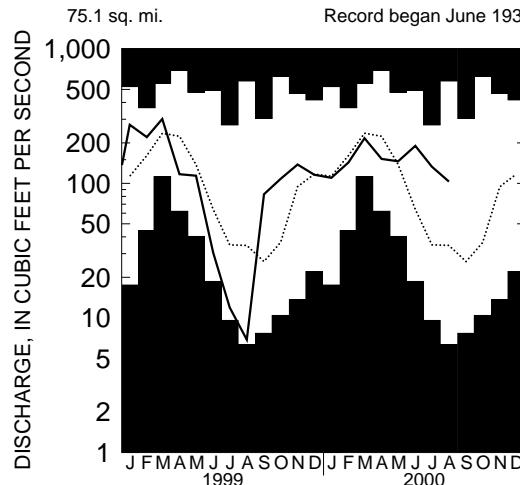
Streamflows in August were in the normal to above-normal range for the entire State. Flow in Mount Hope River (NE Connecticut) remained in the normal range for the second consecutive month. Flows in Burlington Brook (NW Connecticut), Salmon River (SE Connecticut), and Pomperaug River (SW Connecticut) remained in the above-normal range for the third consecutive month. Across the State, mean streamflow for August averaged 270 percent of the August long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	AUG. 2000 MEAN	JULY 2000 MEAN	AUG. 1999 MEAN	AUG. MAXIMUM VALUE (year recorded)	AUG. MINIMUM VALUE (year recorded)	AUG. MEDIAN (1961–90)
MT HOPE RIVER (01121000)	13.5	19.4	1.72	148	1955	8.41
BURLINGTON (01188000)	6.85	7.84	0.64	36.0	1955	2.33
SALMON RIVER (01193500)	102	81.3	17.6	357	1955	31.4
POMPERAUG (01204000)	103	133	6.87	578	1955	34.5

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

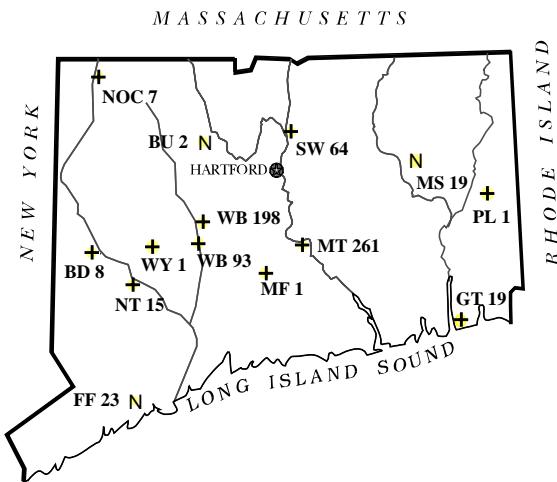
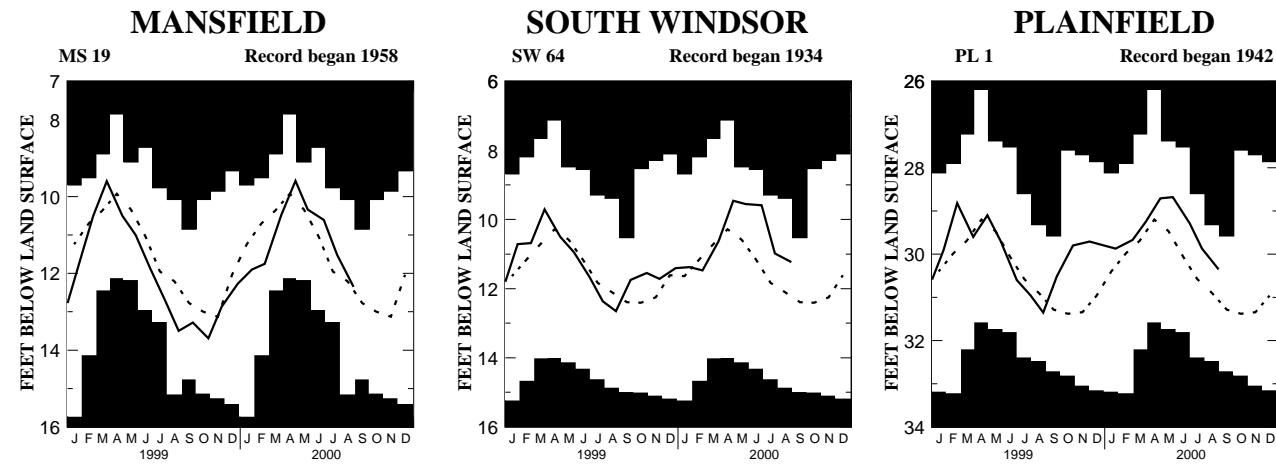
[Station locations shown on front page; --, not applicable; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using membrane filter 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 $\mu\text{S}/\text{cm}$ 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	8/17	0.95/--	99	20.5	8.6/97	7.29	196	31
01122610 Shetucket R. at South Windham	8/10	276/--	106	26.0	9.2/115	7.74	700	184
01124000 Quinebaug R. at Quinebaug	8/8	86.3/74	160	25.0	8.4/103	7.60	250	39
01125100 French R. at North Grosvenordale	8/8	42.0/--	171	25.5	8.8/110	7.48	50	40
01127000 Quinebaug R. at Jewett City	8/10	385/71	107	26.0	8.0/100	7.65	305	112
01184000 Connecticut R. at Thompsonville	8/16	14100/40	104	21.5	7.7/89	7.40	720	60
01188090 Farmington R. at Unionville								
01189030 Pequabuck R. at Farmington	8/15	139/--	221	18.5	6.6/71	7.20	316	224
01189995 Farmington R. at Tariffville	8/15	1150/34	121	19.5	8.5/92	7.04	212	62
01190070 Connecticut R. at Hartford	8/2	--/--	105	21.0	8.3/93	7.33	130	88
01193050 Connecticut R. at Middle Haddam	8/2	--/--	111	21.0	7.8/88	7.11	720	41
01193500 Salmon R. near East Hampton								
01196500 Quinnipiac R. at Wallingford	8/7	272/23	269	21.0	7.7/86	7.47	3600	4000
01198125 Housatonic R. near Ashley Falls, MA	8/3	775/--	288	21.0	7.9/92	7.95	64 K	29
01201487 Still R. at Rt. 7 at Brookfield Center	8/29	41.0/--	542	21.5	8.8/100	7.76	760	88
01205500 Housatonic R. at Stevenson								
01208049 Naugatuck R. near Waterville	8/21	--/--	171	20.5	9.0/100	7.42	28	5 K
01208500 Naugatuck R. at Beacon Falls	8/21	214/67	281	21.5	10.0/112	8.06	48	12 K
01208990 Saugatuck R. near Redding								
01209710 Norwalk R. near Winnipauk	8/1	98.0/--	241	18.5	9.4/101	7.73	2800	1560

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.



ABOVE NORMAL

Within the highest 25%
of record for this month.



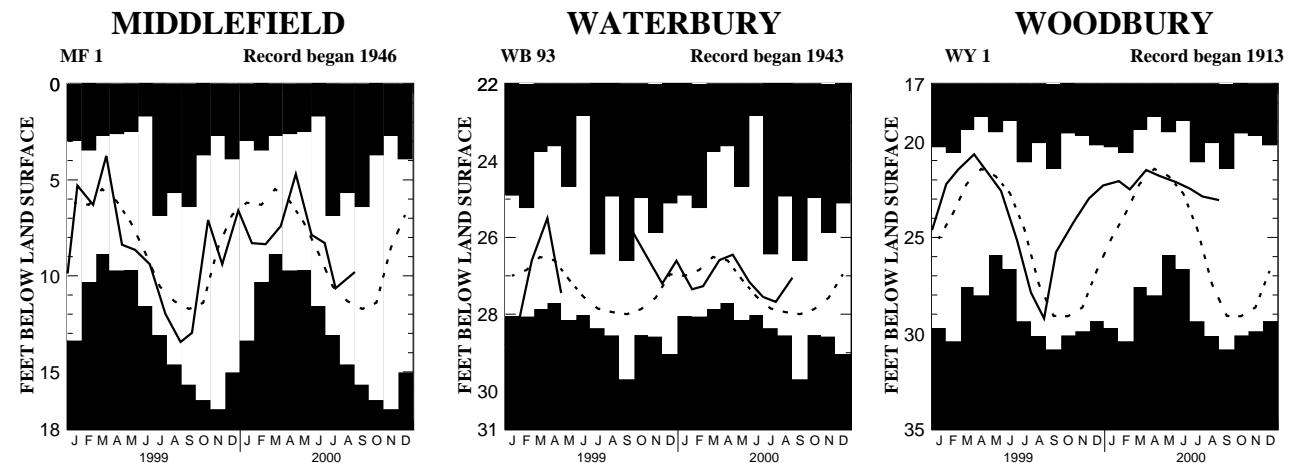
NORMAL RANGE

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

Numerous high ground-water levels and one low ground-water level were recorded for the month of August.

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.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RECORD	YR RECORD BEGAN
	AUG. 2000 (DATE)	JULY 2000	AUG. 1999	AUG. MAX (YR RECORDED)	AUG. MIN (YR RECORDED)	AUG. MEDIAN				
BD 8 (Brookfield)	30.19	30	30.15	32.21	29.49	1969	32.69	1995	31.15	
BU 2 (Burlington)	25.40	28	24.95	28.62	18.30	1969	29.94	1995	23.26	
BU 143 (Burlington)	7.17	28	6.73	10.70	7.17	2000	10.70	1999	NA	>
BU 144 (Burlington)	1.72	28	1.75	1.68	1.43	1998	1.72	2000	NA	<
CL 223 (Clinton)	6.22	29	7.09	9.57	3.96	1992	10.62	1993	9.12	
CL 224 (Clinton)	20.97	29	20.65	22.34	20.47	1992	22.34	1999	21.37	
CL 225 (Clinton)	6.85	29	7.30	8.10	3.80	1998	9.79	1993	7.80	
CO 335 (Colchester)	8.01	29	8.06	8.70	6.24	1989	9.23	1995	8.17	
CV 51 (Coventry)	5.87	28	5.13	7.29	4.90	1994	7.29	1999	6.58	
D 116 (Durham)	2.96	31	4.06	9.29	1.80	1991	10.12	1999	5.82	
D 117 (Durham)	10.72	31	11.37	14.17	9.26	1991	14.48	1987	12.63	
D 119 (Durham)	0.99	31	1.32	3.26	0.48	1991	3.56	1987	2.30	
D 120 (Durham)	2.44	31	2.81	4.16	2.08	1991	3.91	1993	3.31	
EL 82 (Ellington)	6.08	28	5.98	6.55	5.92	1994	6.56	1995	6.31	
EL 139 (Ellington)	27.85	28	26.51	DRY	25.64	1994	31.88	1996	29.39	
EL 140 (Ellington)	18.63	28	16.81	20.68	15.39	1994	20.68	1999	19.21	
EW 133 (East Windsor)	5.33	28	5.28	5.89	4.97	1990	5.93	1995	5.60	
EW 134 (East Windsor)	50.46	28	50.14	51.70	49.36	1989	51.70	1999	50.76	
FF 23 (Fairfield)	8.15	30	8.44	9.80	7.21	1992	9.80	1999	8.34	
FF 30 (Fairfield)	3.25	30	4.48	10.78	3.25	2000	10.80	1995	8.82	>
FF 31 (Fairfield)	7.77	30	9.52	12.85	7.58	1997	13.80	1995	10.65	
FF 32 (Fairfield)	6.15	30	7.17	12.80	6.15	2000	12.90	1995	11.36	>
FF 33 (Fairfield)	5.32	30	5.41	7.28	5.32	2000	7.40	1995	6.34	>
GR 328 (Granby)	13.36	28	10.73	16.51	12.18	1994	16.51	1999	14.14	
GR 329 (Granby)	6.33	28	4.59	12.06	6.33	2000	12.06	1999	10.05	>
GR 330 (Granby)	2.75	28	2.66	3.76	2.75	2000	4.31	1983	3.96	>
GR 331 (Granby)	10.28	28	10.33	13.09	10.28	2000	13.09	1999	11.16	>
GT 19 (Groton)	15.62	27	16.02	DRY	14.19	1989	17.52	1964	16.42	
HM 445 (Hamden)	20.68	30	24.23	27.83	20.68	2000	32.66	1993	27.92	>
HM 446 (Hamden)	4.03	30	3.97	4.28	3.56	1997	4.44	1995	NA	
HM 447 (Hamden)	2.92	30	2.88	3.88	2.92	2000	4.11	1995	NA	>
HM 448 (Hamden)	13.31	30	13.22	14.60	13.31	2000	14.94	1995	NA	>
HM 449 (Hamden)	16.90	30	16.83	20.01	15.03	1997	21.47	1993	NA	
HM 450 (Hamden)	13.24	30	13.21	13.85	12.70	1997	13.85	1999	NA	
										1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN
	AUG. 2000 (DATE)	JULY 2000	AUG. 1999	AUG. MAX (YR RECORDED)	AUG. MIN (YR RECORDED)		AUG. MEDIAN			
MB 32 (Marlborough)	5.47	29	6.18	8.95	1.78	1989	10.19	1993	7.99	
MB 35 (Marlborough)	12.23	29	12.37	16.30	12.23	2000	16.30	1999	15.70	> 1993
MB 36 (Marlborough)	4.87	29	6.54	8.61	4.87	2000	9.28	1995	8.54	> 1993
MF 1 (Middlefield)	9.80	31	10.65	13.45	5.66	1992	14.59	1965	11.32	
MS 19 (Mansfield)	12.35	28	11.52	13.50	10.40	1989	15.14	1966	12.27	
MS 44 (Mansfield)	5.01	28	3.84	8.42	0.34	1989	9.55	1993	6.28	
MS 45 (Mansfield)	12.81	28	12.45	14.04	11.80	1994	14.18	1995	13.50	
MS 46 (Mansfield)	14.49	28	13.96	14.65	13.70	1994	15.01	1995	14.38	
MS 74 (Mansfield)	6.72	28	5.17	9.80	4.94	1994	9.80	1999	8.64	
MS 75 (Mansfield)	11.22	28	8.92	15.27	11.22	2000	16.26	1995	14.38	> 1992
MS 76 (Mansfield)	30.30	28	29.37	34.10	30.30	2000	35.82	1995	34.45	> 1992
MS 77 (Mansfield)	6.67	28	5.18	9.80	4.41	1994	9.82	1993	8.52	
MT 261 (Middletown)	21.08	31	20.72	24.74	20.53	1989/98	25.07	1957	22.56	
NHV 201 (North Haven)	15.30	30	15.35	17.85	14.64	1977	17.85	1999	16.24	
NHV 202 (North Haven)	51.01	30	47.08	53.11	41.33	1984	59.08	1981	51.28	
NOC 7 (North Canaan)	9.73	31	9.29	10.64	9.02	1990	11.16	1995	9.96	
NSN 77 (N. Stonington)	13.79	29	13.36	15.70	13.79	2000	16.55	1993	15.02	> 1991
NSN 78 (N. Stonington)	5.34	29	5.86	6.35	3.93	1992	7.08	1995	5.71	
NT 15 (Newtown)	5.37	30	5.73	9.95	4.97	1994	10.20	1981	7.78	
PL 1 (Plainfield)	30.35	29	29.87	31.35	29.32	1989	32.46	1966	30.98	
SB 30 (Southbury)	18.44	30	18.45	8.27	18.44	2000	22.18	1999	20.10	> 1979
SB 39 (Southbury)	7.26	30	7.07	22.18	5.67	1994	8.36	1995	7.53	
SB 41 (Southbury)	48.71	30	49.13	55.40	46.35	1992	55.40	1999	49.74	
SB 42 (Southbury)	14.15	30	13.60	22.87	13.47	1994	22.87	1999	16.62	
SC 19 (Scotland)	8.39	29	7.53	10.85	6.67	1994	11.05	1993	7.66	
SC 20 (Scotland)	9.40	29	8.34	10.22	7.79	1984	10.40	1993	8.88	
SC 21 (Scotland)	1.25	29	0.75	1.50	+1.22	1998	1.78	1995	1.20	
SC 22 (Scotland)	13.22	29	12.61	13.79	12.23	1985	13.90	1993	13.38	
SC 23 (Scotland)	2.66	29	2.58	2.95	1.33	1993	3.28	1998	2.69	
SM 7 (Salem)	11.27	29	11.45	13.41	9.60	1989	13.41	1999	12.72	
SW 64 (S. Windsor)	11.23	28	10.98	12.65	9.39	1989	14.85	1966	12.18	
SY 15 (Salisbury)	12.28	26	12.00	14.50	12.28	2000	15.53	1991	14.50	> 1966
SY 23 (Salisbury)	7.05	26	6.60	15.07	5.25	1994	16.43	1993	9.47	
SY 24 (Salisbury)	11.03	26	10.47	17.60	10.41	1994	17.61	1993	14.14	
WB 93 (Waterbury)	27.05	30	27.68	OBS	24.92	1955	28.54	1966	27.92	
WB 198 (Waterbury)	13.85	30	14.42	20.68	11.08	1955	20.68	1999	15.90	
WY 1 (Woodbury)	23.06	30	22.87	29.22	20.06	1955	32.90	1914	28.12	
										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