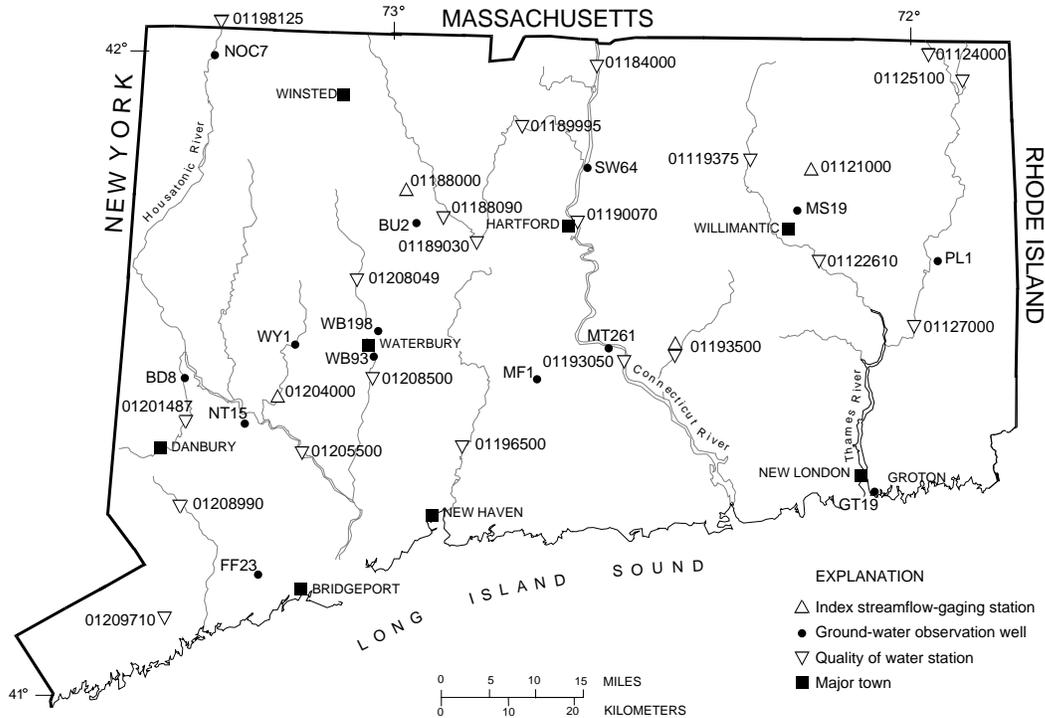


**U.S. Department of the Interior
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, JANUARY 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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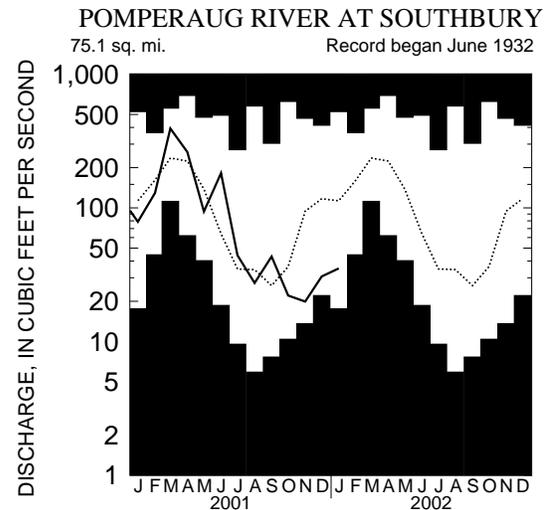
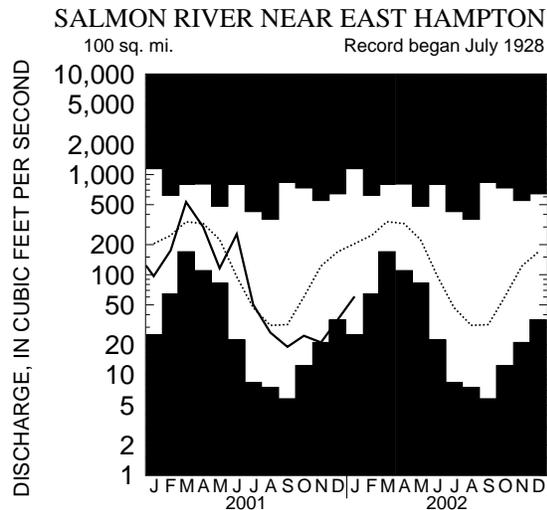
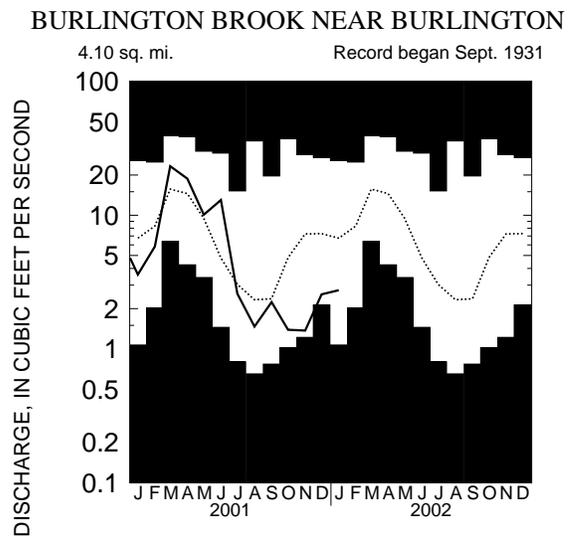
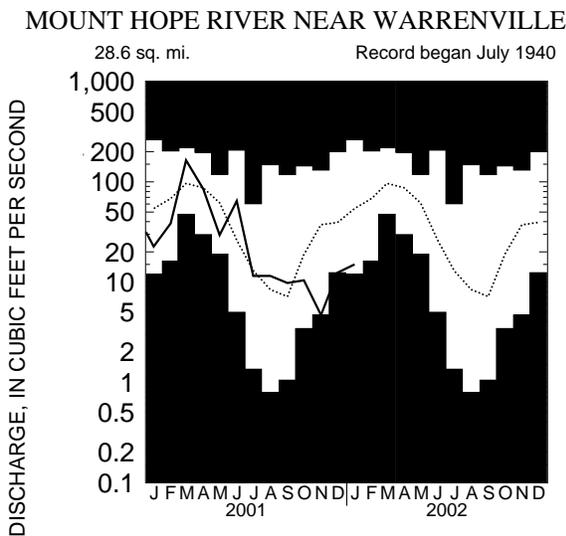
STREAMFLOW (measured in cubic feet per second) → PROVISIONAL DATA ←

Streamflow across the State was in the below-normal range. Flow at two stations—Mount Hope River (NE Connecticut) and Pomperaug River (SW Connecticut)—was in the below-normal range for the third consecutive month. Flow at Burlington Brook (NW Connecticut) was in the below-normal range for the fourth consecutive month and flow in the Salmon River (SE Connecticut) was in the below-normal range for the fifth consecutive month. Across the State, mean streamflow for January averaged 22 percent of the January long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	JAN. 2002 MEAN	DEC. 2001 MEAN	JAN. 2001 MEAN	JAN. MAXIMUM VALUE (year recorded)		JAN. MINIMUM VALUE (year recorded)		JAN. MEDIAN (1961-90)
MT HOPE RIVER (01121000)	15.0	12.4	22.6	264	1979	12.0	1981	54.1
BURLINGTON (01188000)	2.75	2.56	3.60	25.7	1996	1.07	1981	6.73
SALMON RIVER (01193500)	60.7	35.4	96.7	1144	1979	25.2	1981	204
POMPERAUG (01204000)	35.2	30.7	78.7	525	1979	17.5	1981	113

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

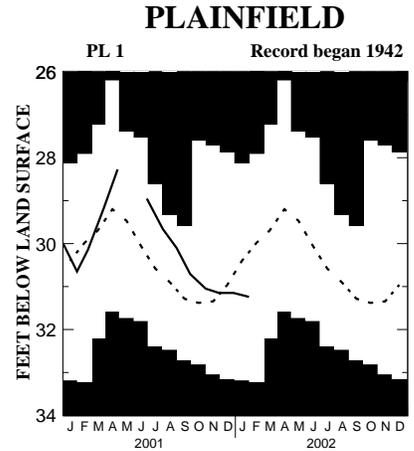
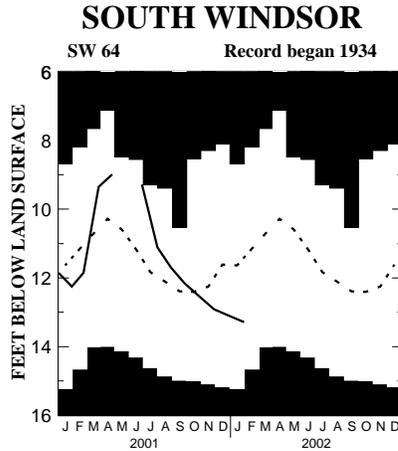
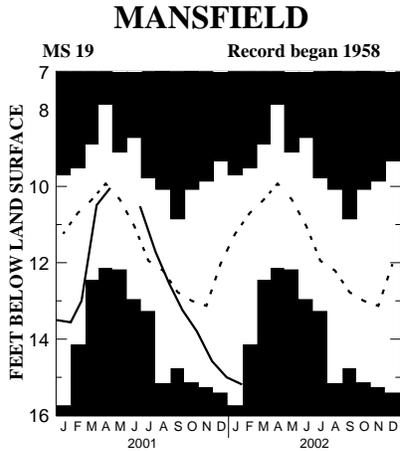
[Station locations shown on front page; - -, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data 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)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	1/10	80.7 / - -	181	0.5	14.8 / 106	6.6	37	6 K
01122610 Shetucket R. at South Windham	1/09	142 / - -	154	1.5	14.1 / 102	6.8	38	52
01124000 Quinebaug R. at Quinebaug	1/08	46.3 / 87	326	0.0	14.0 / 97	7.0	88	76
01125100 French R. at North Grosvenordale	1/08	32.0 / - -	326	3.5	14.3 / 109	7.0	83 K	49
01127000 Quinebaug R. at Jewett City	1/09	137 / 96	162	3.0	14.4 / 108	7.1	144	164
01184000 Connecticut R. at Thompsonville	1/18	6660 / 73	160	2.0	13.9 / 101	7.2	- -	- -
01188090 Farmington R. at Unionville	1/15	157 / 98	148	1.5	13.8 / 99	7.1	4 K	11 K
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	1/17	243 / - -	457	1.5	12.5 / 92	7.8	35	840
01201487 Still R. at Rt. 7 at Brookfield Center	1/14	38.0 / - -	616	3.0	12.2 / 91	7.5	5900	1080
01205500 Housatonic R. at Stevenson	1/14	72.6 / 99	326	3.5	16.3 / 123	7.7	3 K	< 60 K
01208049 Naugatuck R. near Waterville	1/16	56.0 / - -	306	1.5	13.8 / 99	7.6	236	58
01208500 Naugatuck R. at Beacon Falls	1/16	101 / 91	394	5.5	14.4 / 114	7.8	700	65
01208990 Saugatuck R. near Redding	1/29	15.6 / 65	232	4.0	13.9 / 108	7.6	5 K	9 K
01209710 Norwalk R. near Winnipauk	1/29	25.0 / - -	466	5.0	14.5 / 114	8.0	- -	- -

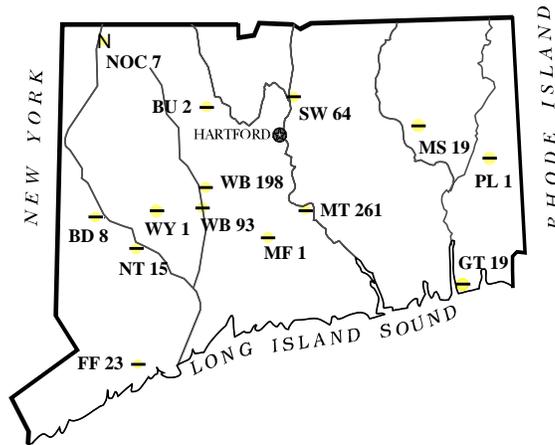
GROUND-WATER LEVELS

(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.



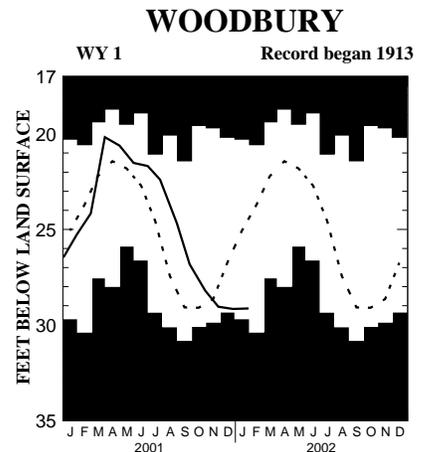
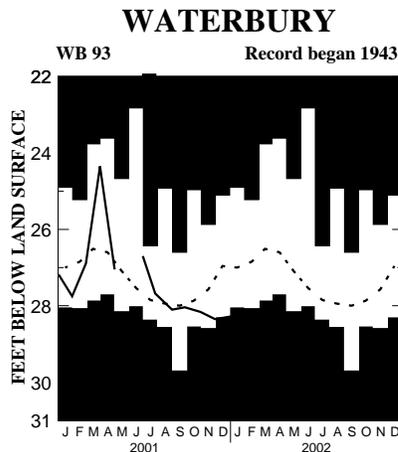
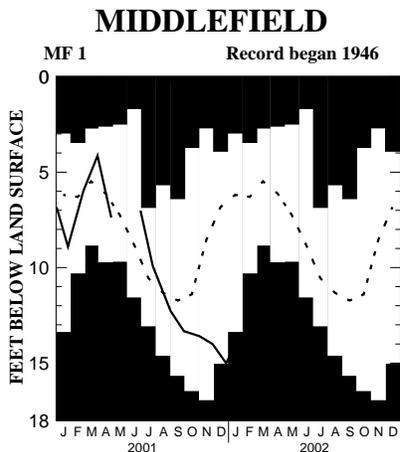
NORMAL RANGE

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



BELOW NORMAL

Within the lowest 25% of record for this month.



GROUND-WATER LEVELS

Monthly low ground-water levels were recorded at 50 wells in January. In 7 of those wells, record lows for the period of record also were established.

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 2001). 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
	JAN. 2002 (DATE)	DEC. 2001	JAN. 2001	JAN. MAX (YR RECORDED)		JAN. MIN (YR RECORDED)		JAN. MEDIAN			
BD 8 (Brookfield)	33.10	29	33.01	31.20	27.80	1973	33.41	1981	30.44		1966
BU 2 (Burlington)	DRY	29	42.40	31.40	15.64	1952	DRY	2002	20.28	<,<<	1946
BU 143 (Burlington)	10.76	29	12.43	7.78	3.83	1997	10.76	2002	5.16	<	1996
BU 144 (Burlington)	2.57	29	2.66	2.71	2.44	1999	2.78	1997	2.70		1996
CL 223 (Clinton)	8.33	28	10.36	4.26	2.41	1966	8.33	2002	3.78	<	1991
CL 224 (Clinton)	23.31	28	23.41	21.24	18.95	1997	23.31	2002	20.35	<	1991
CL 225 (Clinton)	6.51	28	7.02	5.98	4.91	1996	6.51	2002	5.55	<	1991
CO 335 (Colchester)	7.95	28	8.06	7.47	4.66	1990	7.95	2002	6.82	<	1986
CV 51 (Coventry)	6.18	30	6.42	4.57	3.26	1996	7.03	1999	4.15		1992
D 116 (Durham)	3.82	28	6.78	0.27	0.05	1998	3.82	2002	0.39	<	1986
D 117 (Durham)	11.05	28	11.63	10.56	4.73	1996	11.06	1989	9.57		1986
D 119 (Durham)	0.24	28	0.43	0.26	0.03	1986	1.45	2000	0.34		1986
D 120 (Durham)	2.46	28	2.34	1.93	0.56	1998	2.56	1986	1.89		1986
EL 82 (Ellington)	6.49	30	6.47	6.16	5.01	1996	6.49	2002	5.68	<	1987
EL 139 (Ellington)	DRY	30	DRY	26.96	19.76	1997	DRY	2002	20.01	<,<<	1993
EL 140 (Ellington)	19.65	30	22.25	17.89	10.27	1996	19.65	2002	11.82	<	1993
EW 133 (East Windsor)	5.51	30	5.48	5.14	3.40	1996	5.51	2002	4.90	<	1986
EW 134 (East Windsor)	52.02	30	51.87	51.51	49.16	1997	52.02	2002	51.02	<,<<	1986
FF 23 (Fairfield)	8.28	31	8.25	7.80	5.49	1976	8.55	1981	7.90		1966
FF 30 (Fairfield)	9.97	31	11.02	2.05	0.68	1997	9.97	2002	2.07	<	1993
FF 31 (Fairfield)	10.32	31	10.30	6.82	2.46	1996	10.32	2002	5.79	<	1993
FF 32 (Fairfield)	7.73	31	10.47	OBS	5.10	1998	7.73	2002	5.83	<	1993
FF 33 (Fairfield)	5.35	31	5.39	4.73	3.99	1996	5.35	2002	4.74	<	1993
GR 328 (Granby)	18.61	29	18.34	14.96	7.74	1996	18.61	2002	11.13	<	1981
GR 329 (Granby)	9.68	29	12.39	6.57	0.88	1996	9.68	2002	5.27	<	1982
GR 330 (Granby)	2.86	29	2.93	2.90	2.26	1996	3.81	1985	3.26		1982
GR 331 (Granby)	10.19	29	10.41	11.27	6.59	1996	11.27	2001	9.26		1983
GT 19 (Groton)	16.19	27	16.78	15.20	10.20	1979	17.08	1966	14.80		1958
HM 445 (Hamden)	34.41	31	34.99	23.76	14.50	1998	34.41	2002	18.85	<	1988
HM 446 (Hamden)	4.05	31	3.97	3.62	1.11	1994	4.05	2002	3.12	<	1993
HM 447 (Hamden)	3.08	31	3.67	3.03	0.84	1994	3.08	2002	2.21	<	1993
HM 448 (Hamden)	14.48	31	14.36	13.51	9.74	1996	14.48	2002	12.81	<	1993
HM 449 (Hamden)	15.30	31	26.61	16.84	11.02	1996	17.46	2000	14.58		1993
HM 450 (Hamden)	DRY	31	DRY	13.39	10.79	1993	DRY	2002	12.51	<,<<	1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YR RECORD BEGAN
	JAN. 2002 (DATE)	DEC. 2001	JAN. 2001	JAN. MAX (YR RECORDED)			JAN. MIN (YR RECORDED)		JAN. MEDIAN		
MB 32 (Marlborough)	10.40	28	11.13	5.65	0.95	1996	10.40	2002	3.54	<	1986
MB 35 (Marlborough)	17.70	28	18.27	11.65	4.48	1996	17.70	2002	7.66	<	1993
MB 36 (Marlborough)	5.88	28	8.05	3.30	1.32	1997	5.88	2002	2.83	<	1993
MF 1 (Middlefield)	13.37	28	15.01	8.90	2.95	1996	13.37	2002	6.27	<	1946
MS 19 (Mansfield)	15.19	30	15.00	13.56	9.70	1978	15.72	1966	11.36		1958
MS 44 (Mansfield)	7.19	30	8.46	2.53	0.32	1990	7.19	2002	2.55	<	1982
MS 45 (Mansfield)	14.48	30	14.38	12.87	9.31	1996	14.48	2002	11.60	<	1987
MS 46 (Mansfield)	15.34	30	15.18	13.84	11.75	1996	15.34	2002	12.93	<	1987
MS 74 (Mansfield)	10.40	30	11.05	5.08	0.55	1993	10.40	2002	1.69	<	1992
MS 75 (Mansfield)	19.93	30	19.28	14.27	4.40	1997	19.93	2002	8.20	<	1992
MS 76 (Mansfield)	37.17	30	36.79	29.92	29.19	1994	37.17	2002	30.44	<,<<	1992
MS 77 (Mansfield)	10.75	30	10.70	4.40	0.83	1994	10.75	2002	2.13	<,<<	1993
MT 261 (Middletown)	25.57	28	25.51	20.18	17.85	1979	26.08	1981	19.77		1956
NHV 201 (North Haven)	17.93	31	18.41	16.40	13.35	1979	17.93	2002	15.98	<	1975
NOC 7 (North Canaan)	9.58	29	9.47	9.57	8.50	1996	9.87	1968	9.41		1958
NSN 77 (N. Stonington)	14.28	28	15.93	11.65	5.99	1998	14.28	2002	10.48	<	1991
NSN 78 (N. Stonington)	4.39	28	4.44	4.55	3.28	1999	4.84	1993	3.80		1991
NT 15 (Newtown)	8.41	31	9.03	6.64	1.62	1996	10.67	1981	4.58		1966
PL 1 (Plainfield)	31.24	30	31.15	30.65	28.12	1973	33.17	1966	30.37		1942
SB 30 (Southbury)	21.22	29	21.40	19.87	16.74	1996	21.22	2002	18.20	<	1979
SB 39 (Southbury)	7.47	29	7.45	7.26	2.35	1996	7.63	1994	6.58		1991
SB 41 (Southbury)	50.56	29	52.60	48.57	45.21	1995	50.56	2002	46.85	<	1991
SB 42 (Southbury)	19.10	29	20.37	13.30	10.97	1996	19.10	2002	12.38	<	1993
SC 19 (Scotland)	9.45	30	10.65	5.65	0.98	1994	9.45	2002	3.14	<	1983
SC 20 (Scotland)	11.36	30	11.90	8.39	2.34	1997	11.36	2002	4.92	<	1983
SC 21 (Scotland)	1.55	30	1.56	1.42	+0.32	1999	1.55	2002	0.50	<	1983
SC 22 (Scotland)	14.41	30	14.51	13.22	8.16	1996	14.41	2002	11.50	<	1984
SC 23 (Scotland)	2.49	30	2.57	2.42	0.26	1999	2.49	2002	2.03	<	1983
SM 7 (Salem)	13.15	28	13.44	10.98	7.14	1996	13.15	2002	9.00	<	1979
SW 64 (S. Windsor)	13.29	30	13.10	12.25	8.68	1997	15.22	1966	11.58		1934
SY 15 (Salisbury)	17.02	29	16.76	13.55	11.89	1993	17.02	2002	13.52	<	1966
SY 23 (Salisbury)	14.00	29	15.22	7.15	4.73	1996	14.00	2002	6.04	<	1987
SY 24 (Salisbury)	15.30	29	16.05	13.10	7.71	1996	15.30	2002	11.37	<	1986
WB 93 (Waterbury)	28.21	31	28.29	27.75	24.90	1996	28.21	2002	27.00	<	1943
WB 198 (Waterbury)	22.53	31	22.42	18.45	6.56	1949	22.53	2002	13.98	<,<<	1943
WY 1 (Woodbury)	29.14	29	29.17	25.25	20.28	1979	29.90	1915	25.43		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