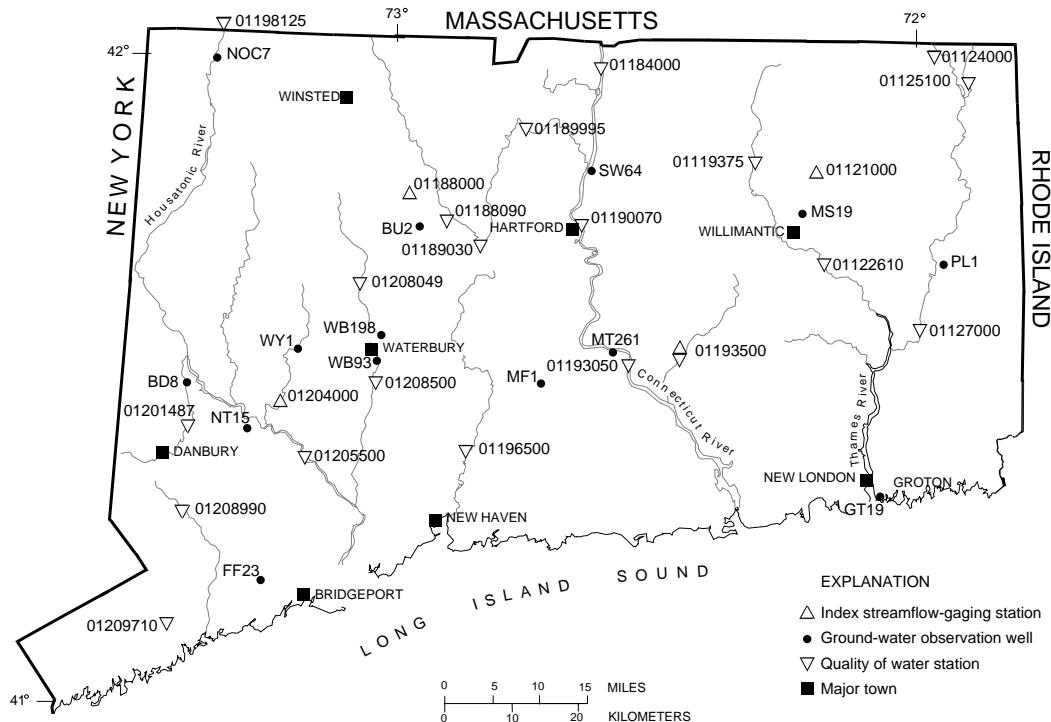


U.S. Department of the Interior U.S. Geological Survey



WATER-RESOURCES CONDITIONS IN CONNECTICUT, MAY 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

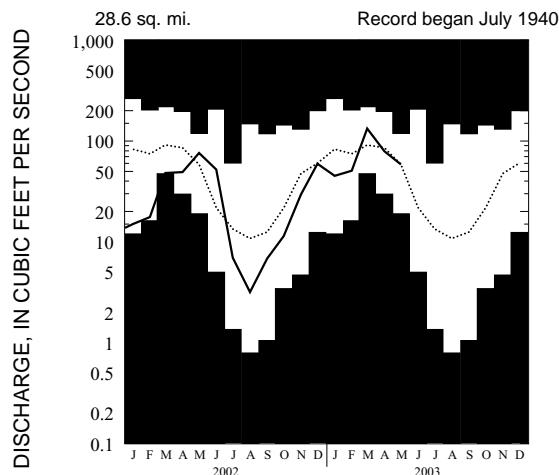
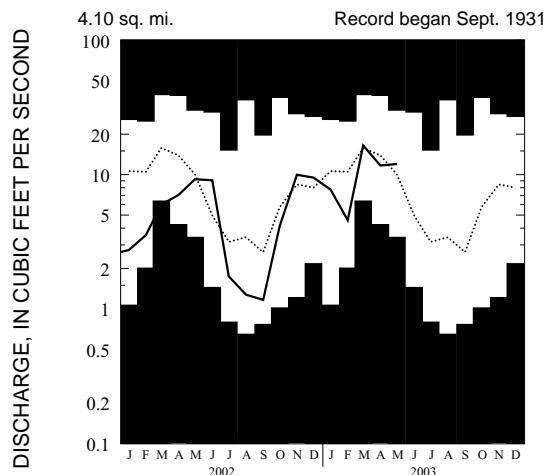
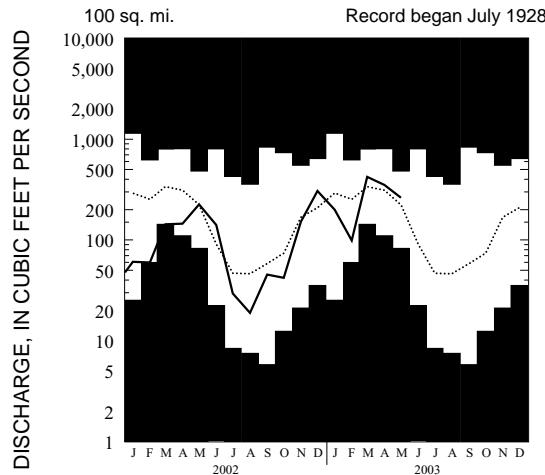
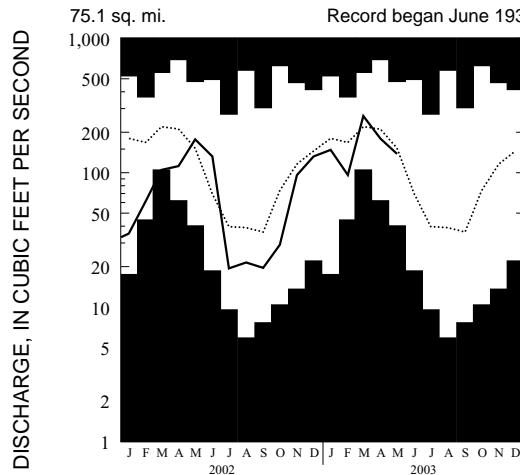
Streamflow across the State was in the normal range. Flow at Burlington Brook (NW Connecticut), and Salmon River (SE Connecticut) remained in the normal range for the third consecutive month. Flows at Mount Hope River (NE Connecticut), and Pomperaug River (SW Connecticut) remained in the normal range for the seventh consecutive month. Across the State, mean streamflow for May averaged 107 percent of the May long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MAY 2003 MEAN	APRIL 2003 MEAN	MAY 2002 MEAN	MAY MAXIMUM VALUE (year recorded)	MAY MINIMUM VALUE (year recorded)	MAY MEDIAN (1971-2000)
MT HOPE RIVER (01121000)	58.6	79.1	76.2	119	1984	58.5
BURLINGTON (01188000)	12.0	11.7	9.25	30.1	1989	10.0
SALMON RIVER (01193500)	263	352	225	482	1989	223
POMPERAUG (01204000)	138	179	177	476	1989	152

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 SOUTHURY**

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)]

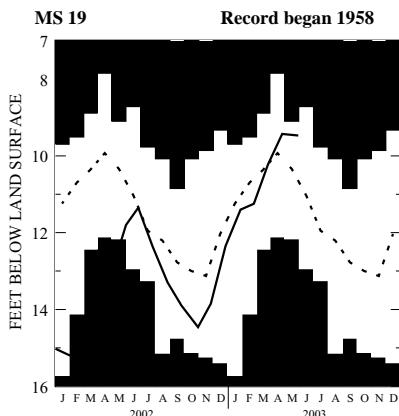
USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2003	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER STEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L)/PERCENT SATURATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	E. COLI (COL/100 mL)
01119375 Willimantic R. at Merrow	5/05	166 / --	107	14.0	11.5 / 112	7.0	21	7 K
01122610 Shetucket R. at South Windham	5/06	699 / --	110	13.5	10.4 / 100	7.0	22	21
01124000 Quinebaug R. at Quinebaug	5/08	231 / 40	236	15.5	9.5 / 94	7.1	69	57
01125100 French R. at North Grosvenordale	5/08	127 / --	234	15.5	9.5 / 95	7.0	35	25
01127000 Quinebaug R. at Jewett City	5/06	1420 / 33	132	15.0	10.0 / 99	7.1	73	66
01184000 Connecticut R. at Thompsonville					SITE NOT SAMPLED THIS MONTH			
01188090 Farmington R. at Unionville					SITE NOT SAMPLED THIS MONTH			
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	5/27	1050 / --	331	13.5	9.0 / 88	7.3	2700	640
01201487 Still R. at Rt. 7 at Brookfield Center	5/20	52.7 / --	577	15.5	7.9 / 80	7.7	540	228
01205500 Housatonic R. at Stevenson	5/20	110 / 95	277	19.0	11.5 / 122	8.4	3 K	<1 K
01208049 Naugatuck R. near Waterville	5/12	277 / --	168	15.0	9.6 / 98	7.2	59	43
01208500 Naugatuck R. at Beacon Falls	5/13	512 / 34	224	13.5	11.9 / 116	7.4	92	78 K
01208990 Saugatuck R. near Redding					SITE NOT SAMPLED THIS MONTH			
01209710 Norwalk R. near Winnipauk	5/21	23.5 / --	358	17.0	10.4 / 101	7.9	--	--

GROUND-WATER LEVELS

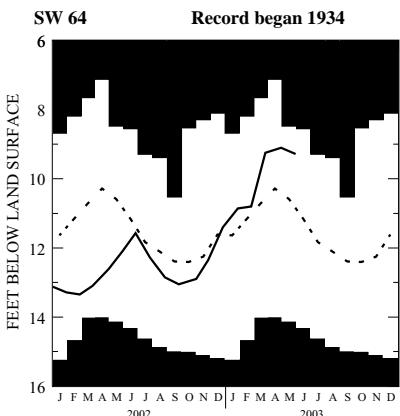
(Status of ground-water storage as indicated by water level changes in observation wells,
as shown on hydrographs)

- 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.

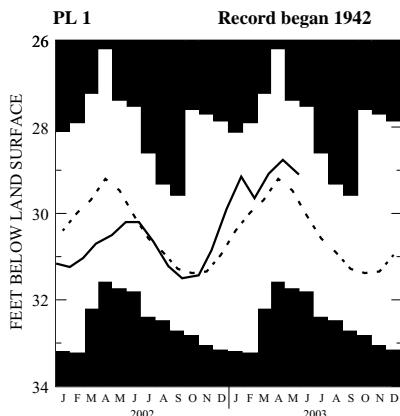
MANSFIELD



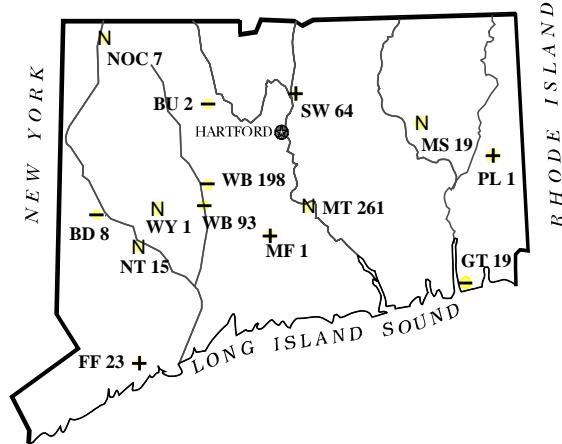
SOUTH WINDSOR



PLAINFIELD



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.

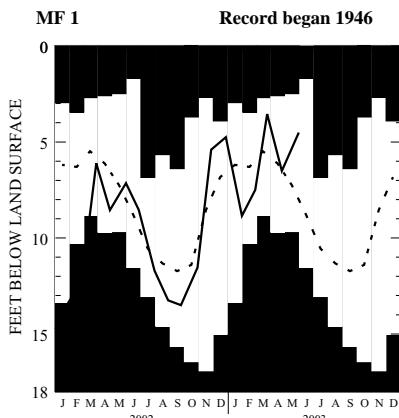


BELOW NORMAL

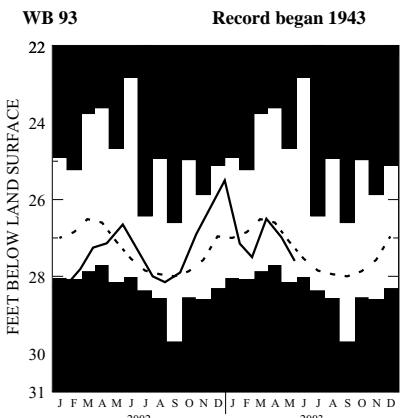
Within the lowest 25%
of record for this month.



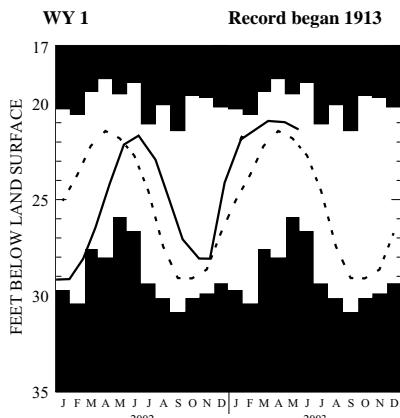
MIDDLEFIELD



WATERBURY



WOODBURY



GROUND-WATER LEVELS

25 record highs were recorded during May 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. Statistics are based on period of record (through calendar year 2000). Ground-water level data are collected by USGS personnel and individual observers. Because of last year's drought, measurements were made in selected wells on a weekly or twice-a-month basis. In some wells, this causes the column labeled MAY MIN to have a value that is not the same as the one reported in the column labeled MAY 2002, which is the last measurement for the month.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE							NEW RECORD	YEAR RECORD BEGAN
	MAY 2003 (DATE)	APRIL 2003	MAY 2002	MAY MAX (YR RECORDED)	MAY MIN (YR RECORDED)	MAY MEDIAN			
BD 8 (Brookfield)	29.69	28	29.08	31.34	27.60	1989	31.84	1985	28.70
BU 2 (Burlington)	18.04	28	18.11	22.99	15.58	1967	22.99	2002	17.12
BU 143 (Burlington)	3.87	28	3.72	4.11	3.87	2003	4.73	1997	4.12
BU 144 (Burlington)	1.30	28	2.36	2.61	1.30	2003	2.61	2002	2.47
CL 223 (Clinton)	2.88	30	3.13	4.08	2.88	2003	5.64	1992	4.64
CL 224 (Clinton)	19.33	30	18.45	19.89	18.53	1998	20.41	1999	18.66
CL 225 (Clinton)	5.41	30	5.64	5.90	5.41	2003	6.04	1992	5.75
CO 335 (Colchester)	6.31	30	6.72	7.08	6.31	2003	7.69	1986	7.20
CV 51 (Coventry)	3.57	29	3.78	4.12	3.57	2003	4.82	1993	4.43
D 116 (Durham)	0.18	30	0.27	1.37	0.16	1989/2000	3.79	1986	0.89
D 117 (Durham)	9.36	30	9.87	10.21	8.07	1996	12.57	1986	10.04
D 119 (Durham)	0.22	30	0.29	0.80	0.11	2000	2.73	1986	1.06
D 120 (Durham)	1.67	30	1.85	2.10	0.58	1989	3.42	1986	2.34
EL 82 (Ellington)	5.66	29	5.56	6.06	5.55	2000	6.16	1999	5.83
EL 139 (Ellington)	20.82	29	20.51	20.59	19.41	2000	22.61	1999	20.74
EL 140 (Ellington)	13.34	29	12.45	12.77	12.00	2000	13.74	1999	13.03
EW 133 (East Windsor)	4.51	29	4.55	5.17	1.40	1989	5.29	1992	4.90
EW 134 (East Windsor)	50.30	29	50.24	51.86	48.98	1990	51.86	2002	49.72
FF 23 (Fairfield)	7.33	27	7.62	7.83	5.03	1989	8.40	1998	7.90
FF 30 (Fairfield)	0.81	27	1.73	2.66	0.81	2003	3.11	1995	2.23
FF 31 (Fairfield)	5.46	27	5.70	5.82	3.75	1996	7.06	1995	5.85
FF 32 (Fairfield)	5.72	27	5.41	5.54	5.05	1996	6.53	1995	6.04
FF 33 (Fairfield)	4.02	27	4.47	4.70	4.02	2003	5.40	1999	4.96
GR 328 (Granby)	9.81	28	8.95	10.88	9.48	1998	13.00	1985	8.65
GR 329 (Granby)	3.73	29	3.98	4.75	3.73	2003	8.74	1985	4.97
GR 330 (Granby)	2.18	28	2.37	2.60	2.18	2003	3.84	1986	3.14
GR 331 (Granby)	8.90	28	8.66	8.75	8.75	2002	10.94	1986	9.35
GT 19 (Groton)	15.30	25	13.50	14.99	11.68	1979	16.17	1999	14.80
GW 21 (Greenwich)	21.17	29	19.52	--	--	--	--	--	--
GW-22 (Greenwich)	5.30	29	4.98	--	--	--	--	--	--
GW-23 (Greenwich)	22.53	29	24.10	--	--	--	--	--	--
HM 445 (Hamden)	22.35	27	18.68	17.10	17.10	2002	24.40	1999	23.06
HM 446 (Hamden)	2.40	27	2.98	3.31	2.40	2003	3.84	1995	3.59
HM 447 (Hamden)	1.85	27	2.15	2.60	1.85	2003	3.67	1995	2.64
HM 448 (Hamden)	12.40	27	12.57	13.05	12.40	2003	13.91	1995	13.08
HM 449 (Hamden)	13.57	27	14.79	16.31	13.57	2003	18.40	1999	17.53
HM 450 (Hamden)	10.44	27	11.14	12.60	10.44	2003	13.79	1995	13.12

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RECORD	YEAR RECORD BEGAN
	MAY 2003 (DATE)	APRIL 2003	MAY 2002	MAY MAX (YR RECORDED)	MAY MIN (YR RECORDED)	MAY MEDIAN				
MB 32 (Marlborough)	2.25	30	2.65	3.75	2.25	2003	5.68	1986	4.21	> 1986
MB 35 (Marlborough)	6.00	30	6.77	7.98	6.00	2003	10.23	2001	9.06	> 1993
MB 36 (Marlborough)	2.25	30	3.01	3.58	2.25	2003	4.20	1994	3.21	> 1993
MF 1 (Middlefield)	4.51	30	6.51	7.15	2.48	1989	9.67	1966	7.36	1946
MS 19 (Mansfield)	9.47	29	9.43	11.80	9.10	1964	12.16	1985	10.34	1958
MS 44 (Mansfield)	+0.39	29	2.15	2.24	+0.39	2003	5.51	1986	3.32	> 1982
MS 45 (Mansfield)	10.81	29	11.46	12.96	10.81	2003	12.96	2002	11.82	> 1987
MS 46 (Mansfield)	12.32	29	12.88	14.57	12.32	2003	14.57	2002	12.86	> 1987
MS 74 (Mansfield)	0.48	29	1.33	2.74	0.48	2003	3.98	1993	2.88	> 1992
MS 75 (Mansfield)	5.22	29	4.70	11.66	5.17	2000	11.66	2002	6.72	1992
MS 76 (Mansfield)	29.60	29	29.40	33.29	28.38	2000	33.39	2002	30.32	1992
MS 77 (Mansfield)	0.57	29	1.53	2.91	0.57	2003	3.29	1998	2.56	> 1993
MS 80 (Mansfield)	12.17	29	12.42	--	--	--	--	--	--	2003
MT 261 (Middletown)	19.28	30	18.93	19.24	18.65	1989	20.53	1986	19.80	1956
NHV 201 (North Haven)	15.05	27	14.86	16.54	13.07	1983	17.39	1985	15.06	1975
NOC 7 (North Canaan)	9.38	30	9.42	9.37	8.86	1973	9.95	1964	9.47	1958
NSN 77 (N. Stonington)	9.89	30	8.43	9.91	8.57	1998	13.03	1992	11.22	1991
NSN 78 (N. Stonington)	4.03	30	3.96	4.55	3.81	1998	4.55	2002	4.04	1991
NT 15 (Newtown)	3.94	27	3.71	4.65	0.30	1989	7.69	1985	3.79	1966
PL 1 (Plainfield)	29.10	29	28.76	30.20	27.38	1983	31.72	1966	29.47	1942
SB 30 (Southbury)	18.43	28	17.62	18.67	16.97	1996	19.44	1995	18.14	1979
SB 39 (Southbury)	6.05	28	6.40	6.25	6.03	1996	7.10	1992	6.50	1991
SB 41 (Southbury)	47.08	28	46.62	46.55	45.77	1994	48.97	2001	46.70	1991
SB 42 (Southbury)	14.11	28	13.31	14.10	11.95	1996	15.47	2001	13.08	1993
SC 19 (Scotland)	1.97	29	3.25	3.72	1.97	2003	6.07	1993	4.35	> 1983
SC 20 (Scotland)	4.10	29	2.51	3.34	3.21	1998	6.00	1993	4.88	1983
SC 21 (Scotland)	+0.58	29	+0.26	0.59	+0.70	2000	0.59	2002	0.00	1983
SC 22 (Scotland)	11.18	29	10.29	10.97	10.56	2000	11.86	1999	11.06	1984
SC 23 (Scotland)	1.24	29	1.84	2.28	1.24	2003	2.47	1993	1.84	> 1983
SM 7 (Salem)	8.39	30	7.87	8.42	7.45	1998	11.20	1986	9.30	1979
SW 64 (S. Windsor)	9.28	29	9.10	12.10	8.48	1973	14.12	1966	10.66	1934
SY 15 (Salisbury)	12.20	28	11.62	15.03	10.85	1989	15.03	2002	12.46	1966
SY 23 (Salisbury)	6.20	28	6.60	6.96	4.95	1989	8.44	2001	6.39	1987
SY 24 (Salisbury)	10.22	28	9.62	10.00	7.82	1989	12.47	1995	9.99	1986
WB 93 (Waterbury)	27.60	27	26.98	26.65	24.67	1989	28.13	1983	27.13	1943
WB 198 (Waterbury)	14.08	27	12.75	16.90	9.00	1989	18.72	1985	12.55	1943
WY 1 (Woodbury)	21.35	28	20.97	22.14	19.49	1989	28.35	1915	22.10	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.