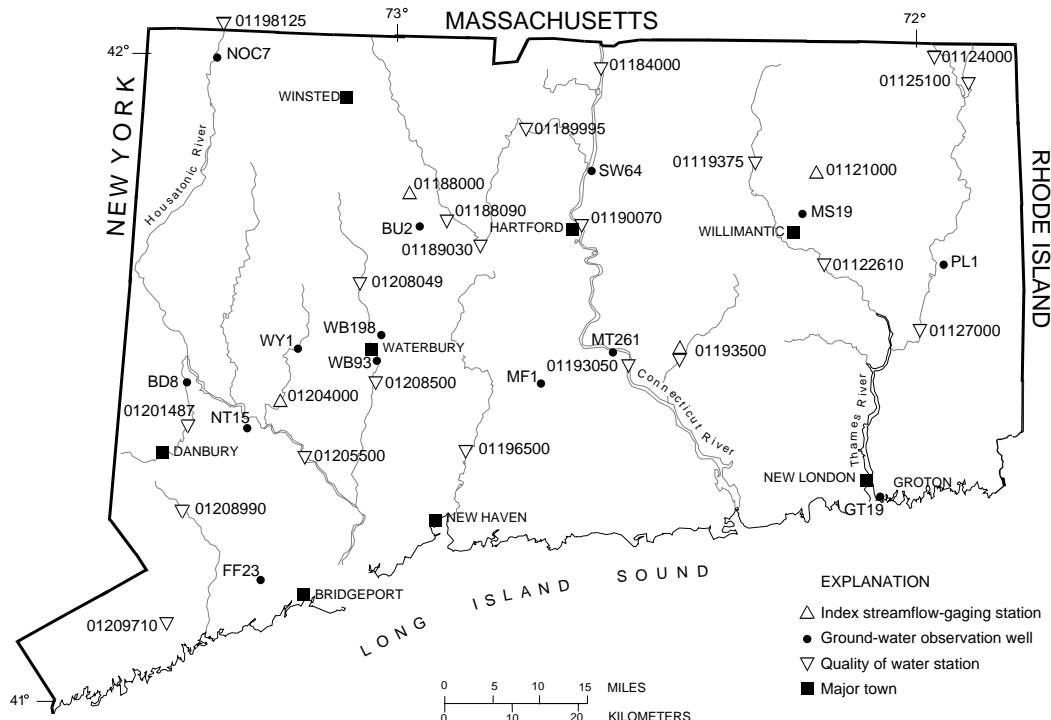


U.S. Department of the Interior U.S. Geological Survey



WATER-RESOURCES CONDITIONS IN CONNECTICUT, JUNE 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 ←

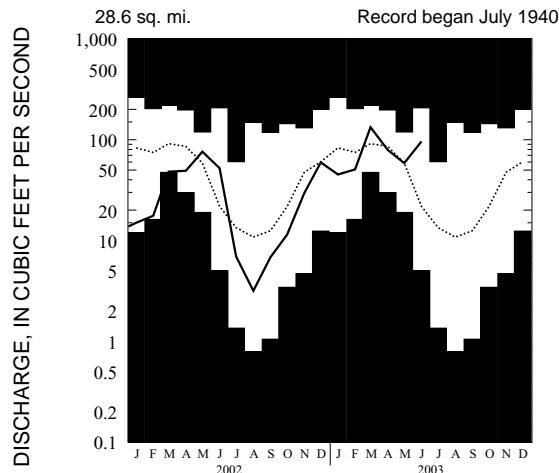
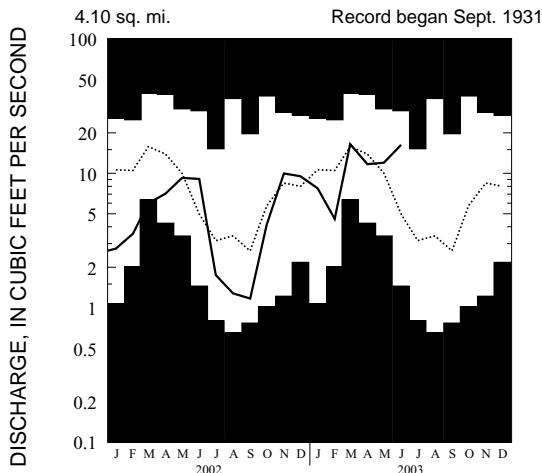
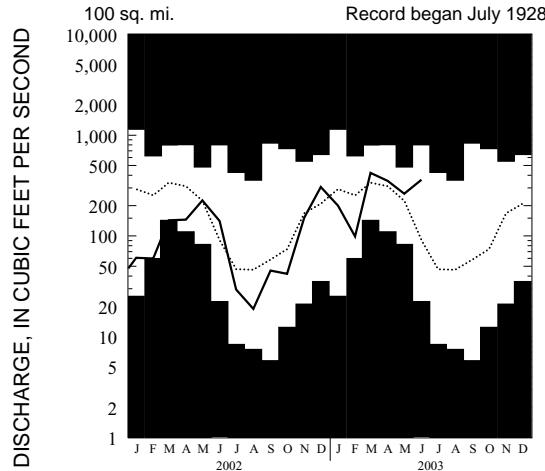
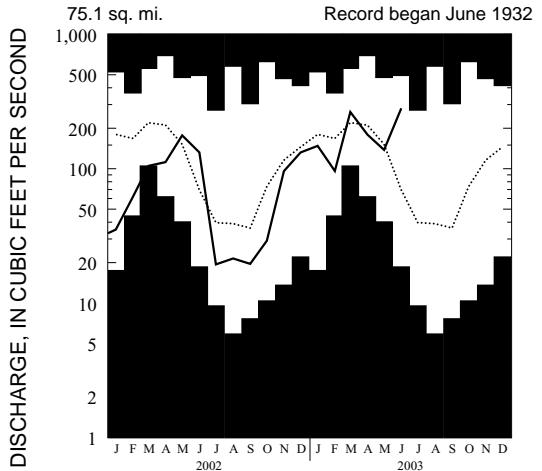
Streamflow across the State was in the above-normal range. Flow at Burlington Brook (NW Connecticut), and Salmon River (SE Connecticut) rose to the above-normal range after being in the normal range for 3 consecutive months. Flows at Mount Hope River (NE Connecticut), and Pomperaug River (SW Connecticut) rose to the above-normal range after being in the normal range for 7 consecutive months. Across the State, mean streamflow for June averaged 392 percent of the June long-term median values.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	JUNE 2003 MEAN	MAY 2003 MEAN	JUNE 2002 MEAN	JUNE MAXIMUM VALUE (year recorded)	JUNE MINIMUM VALUE (year recorded)	JUNE MEDIAN (1971-2000)
MT HOPE RIVER (01121000)	96.2	58.6	52.1	207	1982	21.8
BURLINGTON (01188000)	16.3	12.0	9.07	29.2	1982	4.97
SALMON RIVER (01193500)	361	263	141	801	1982	91.0
POMPERAUG (01204000)	281	138	132	493	1982	69.6

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 ←

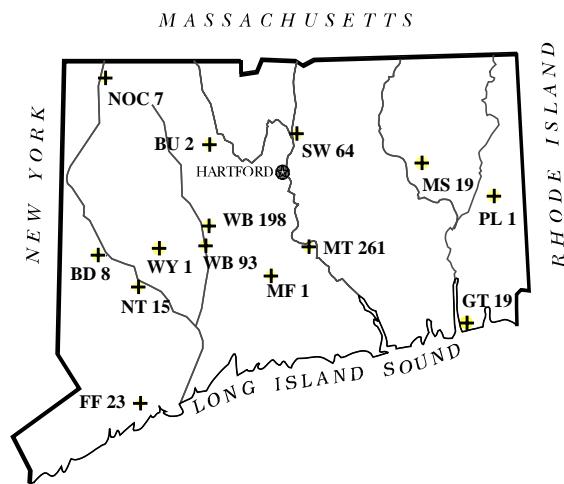
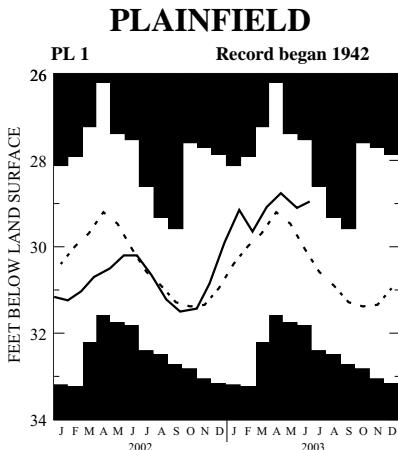
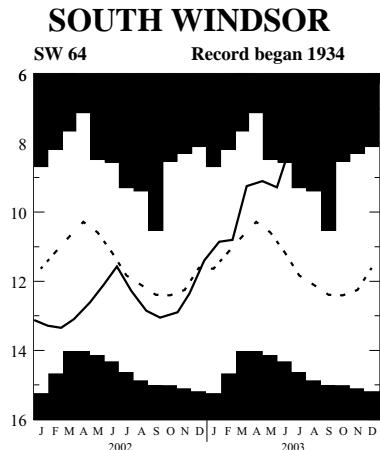
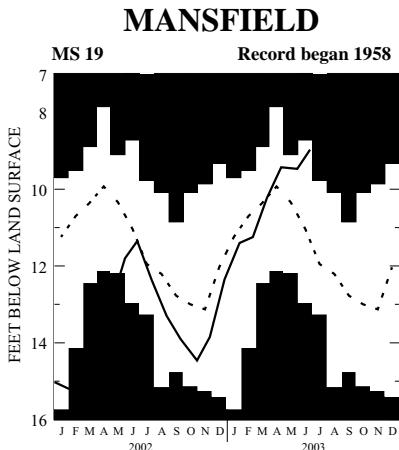
[Station locations shown on front page; --, not applicable; —, not available; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using 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 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)	E. COLI (COL/100 mL)
01119375 Willimantic R. at Merrow	6/09	322/--	92	15.0	9.4/95	6.6	216	164
01122610 Shetucket R. at South Windham	6/10	1080/--	95	18.0	9.6/102	7.1	63	61
01124000 Quinebaug R. at Quinebaug	6/11	333/28	170	18.5	8.8/96	7.0	112	103
01125100 French R. at North Grosvenordale	6/11	290/--	193	19.0	9.2/99	6.8	31	26
01127000 Quinebaug R. at Jewett City	6/10	2390/15	119	17.5	9.0/95	6.9	2,200	1,060
01184000 Connecticut R. at Thompsonville	6/27	10900/53	141	24.5	8.4/101	6.8	—	—
01188090 Farmington R. at Unionville					SITE NOT SAMPLED THIS MONTH			
01189030 Pequabuck R. at Farmington	6/02	620/--	109	14.5	6.3/62	6.6	780	440
01189995 Farmington R. at Tariffville	6/02	3120/ 6	96	14.5	9.6/95	6.8	740	500
01190070 Connecticut R. at Hartford	6/03	--/--	128	16.5	9.3/95	6.8	81 K	62
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	6/04	403/14	241	14.5	9.3/90	7.0	660	660
01198125 Housatonic R. near Ashley Falls, MA					SITE NOT SAMPLED THIS MONTH			
01201487 Still R. at Rt. 7 at Brookfield Center	6/16	169/--	387	18.0	8.0/84	7.7	310	240
01205500 Housatonic R. at Stevenson					SITE NOT SAMPLED THIS MONTH			
01208049 Naugatuck R. near Waterville	6/17	268/--	160	17.5	9.4/98	6.8	60 K	80
01208500 Naugatuck R. at Beacon Falls	6/18	786/17	201	16.5	9.2/95	7.2	1140	660
01208990 Saugatuck R. near Redding					SITE NOT SAMPLED THIS MONTH			
01209710 Norwalk R. near Winnipauk	6/24	117/--	277	18.5	10.1/107	7.9	185	144

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.



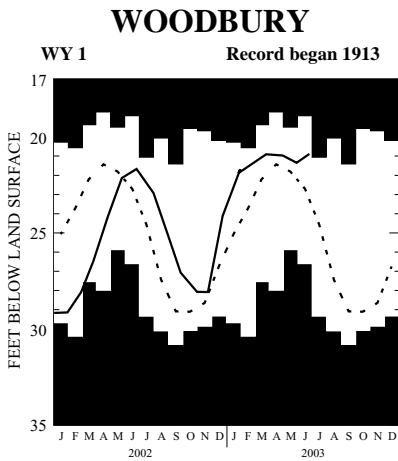
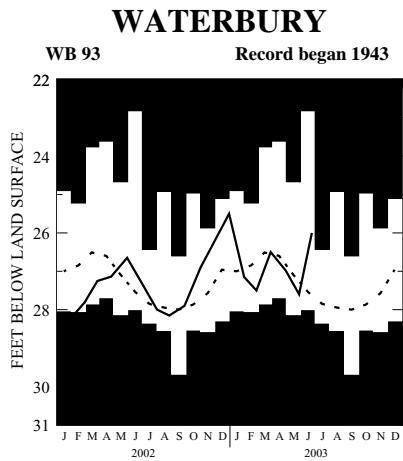
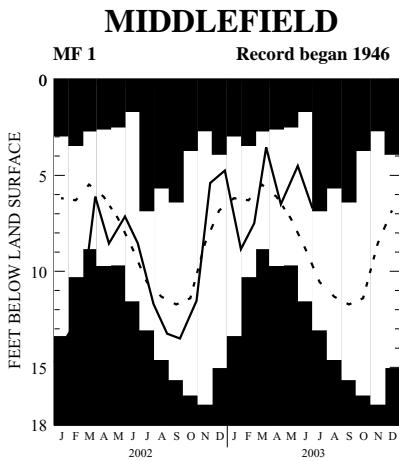
NORMAL RANGE

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

Thirty-five record high ground-water levels were recorded during June 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 JUNE MIN to have a value that is not the same as the one reported in the column labeled JUNE 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
	JUNE 2003 (DATE)	MAY 2003	JUNE 2002	JUNE MAX (YR RECORDED)	JUNE MIN (YR RECORDED)	JUNE MEDIAN			
BD 8 (Brookfield)	29.26	24	29.69	30.36	26.89	1972	31.85	1985	29.51
BU 2 (Burlington)	16.64	24	18.04	19.24	15.45	1948	21.50	1964	18.62
BU 143 (Burlington)	3.60	24	3.87	4.66	3.60	2003	7.44	1999	4.79
BU 144 (Burlington)	1.29	24	1.30	1.75	1.29	2003	1.86	1999	1.56
CL 223 (Clinton)	4.12	30	2.88	5.27	4.12	2003	7.48	1994	5.98
CL 224 (Clinton)	18.95	30	19.33	20.45	18.87	2001	21.03	1999	20.08
CL 225 (Clinton)	5.82	30	5.41	6.34	5.82	2003	7.04	1997	6.14
CO 335 (Colchester)	6.90	30	6.31	7.70	6.58	1989	8.15	1999	7.70
CV 51 (Coventry)	3.49	25	3.57	4.32	3.49	2003	6.08	1998	5.31
D 116 (Durham)	1.60	30	0.18	2.91	0.57	1989	5.38	1999	5.29
D 117 (Durham)	10.00	30	9.36	11.15	8.66	1989	13.22	1998	11.37
D 119 (Durham)	0.47	30	0.22	1.43	0.43	1989	3.01	1988	2.21
D 120 (Durham)	2.09	30	1.67	2.72	1.86	1999	3.72	1988	2.94
EL 82 (Ellington)	5.08	25	5.66	5.94	5.08	2003	6.49	1999	6.12
EL 139 (Ellington)	17.90	25	20.82	20.72	17.90	2003	26.93	1999	25.23
EL 140 (Ellington)	11.20	25	13.34	14.16	11.20	2003	18.24	1999	15.58
EW 133 (E. Windsor)	4.01	25	4.51	5.15	4.01	2003	5.73	1999	5.30
EW 134 (E. Windsor)	50.15	25	50.30	51.69	49.15	1989	51.69	2002	49.98
FF 23 (Fairfield)	6.91	23	7.33	8.18	4.78	1972	8.55	1986	8.14
FF 30 (Fairfield)	0.56	23	0.81	3.78	0.56	2003	6.22	1995	4.04
FF 31 (Fairfield)	4.35	23	5.46	7.21	4.35	2003	9.47	1995	8.14
FF 32 (Fairfield)	4.94	23	5.72	6.18	4.94	2003	8.85	1999	7.21
FF 33 (Fairfield)	3.76	23	4.02	5.18	3.76	2003	6.82	1995	5.42
GR 328 (Granby)	8.47	24	9.81	10.21	7.79	1982	13.67	1995	11.61
GR 329 (Granby)	3.03	24	3.73	4.04	2.82	1982	8.98	1995	5.53
GR 330 (Granby)	2.15	24	2.18	2.68	2.15	2003	4.10	1988	3.52
GR 331 (Granby)	7.98	23	8.90	9.00	7.98	2003	11.40	1988	10.02
GT 19 (Groton)	14.16	29	15.30	15.38	11.10	1972	16.98	1987	15.48
GW 21 (Greenwich)	19.37	23	21.17	19.13	NA	NA	NA	NA	2002
GW-22 (Greenwich)	3.91	23	5.30	6.12	NA	NA	NA	NA	2002
GW-23 (Greenwich)	21.19	23	22.53	23.36	NA	NA	NA	NA	2002
HM 445 (Hamden)	15.88	23	22.35	22.10	15.88	2003	27.25	1999	24.90
HM 446 (Hamden)	2.15	23	2.40	3.70	2.15	2003	4.13	1994	3.76
HM 447 (Hamden)	1.35	23	1.85	3.11	1.35	2003	3.94	1994	3.20
HM 448 (Hamden)	11.91	23	12.40	13.62	11.61	1993	14.33	1995	13.69
HM 449 (Hamden)	13.07	23	13.57	16.43	13.07	2003	20.18	1993	18.44
HM 450 (Hamden)	10.50	23	10.44	13.86	10.50	2003	13.86	2002	13.16

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YEAR RECORD BEGAN
	JUNE 2003 (DATE)	MAY 2003	JUNE 2002	JUNE MAX (YR RECORDED)		JUNE MIN (YR RECORDED)		JUNE MEDIAN		
MB 32 (Marlborough)	3.39	30	2.25	4.32	3.06	1989	7.28	1993	5.55	1986
MB 35 (Marlborough)	8.00	30	6.00	9.92	8.00	2003	12.61	1997	11.55	> 1993
MB 36 (Marlborough)	3.89	30	2.25	4.64	3.89	2003	6.71	1999	5.47	> 1993
MF 1 (Middlefield)	6.72	30	4.51	8.54	1.67	1992	11.54	1965	8.92	1946
MS 19 (Mansfield)	8.97	25	9.47	11.35	8.72	1998	12.94	1965	11.06	1958
MS 44 (Mansfield)	0.67	25	+0.39	2.91	0.67	2003	7.32	1993	4.73	> 1982
MS 45 (Mansfield)	10.50	25	10.81	13.10	10.50	2003	13.34	1995	12.52	> 1987
MS 46 (Mansfield)	12.24	25	12.32	14.55	12.24	2003	14.55	2002	13.54	> 1987
MS 74 (Mansfield)	0.86	25	0.48	3.18	0.86	2003	6.67	1997	5.22	> 1992
MS 75 (Mansfield)	5.09	25	5.22	8.44	5.09	2003	10.38	1995	9.19	> 1992
MS 76 (Mansfield)	29.70	25	29.60	32.75	28.71	2000	33.76	1995	32.35	1992
MS 77 (Mansfield)	1.14	25	0.57	3.44	1.14	2003	6.52	1999	4.87	> 1993
MS 80 (Mansfield)	11.89	25	12.17	NA	NA	NA	NA	NA	NA	2003
MT 261 (Middletown)	19.28	30	19.28	19.83	17.86	1972	21.41	1994	20.58	1956
NHV 201 (North Haven)	13.96	23	15.05	16.44	11.56	1982	17.55	1988	15.43	1975
NOC 7 (North Canaan)	9.35	30	9.38	9.34	9.17	1972	8.22	1998	9.67	1958
NSN 77 (N. Stonington)	10.31	30	9.89	11.58	8.22	1998	14.47	1993	12.68	1991
NSN 78 (N. Stonington)	4.71	30	4.03	5.20	3.70	1998	5.96	1999	4.64	1991
NT 15 (Newtown)	1.69	23	3.94	4.80	0.61	1972	8.60	1988	5.80	1966
PL 1 (Plainfield)	28.95	25	29.10	30.20	27.52	1987	31.79	1966	30.06	1942
SB 30 (Southbury)	17.10	24	18.43	18.03	17.10	2003	20.40	1999	18.78	> 1979
SB 39 (Southbury)	5.59	24	6.05	6.94	5.59	2003	7.79	1995	7.04	> 1991
SB 41 (Southbury)	45.76	24	47.08	47.19	45.76	2003	52.30	1999	48.57	> 1991
SB 42 (Southbury)	12.87	24	14.11	14.62	12.65	1994	17.45	1999	14.68	1993
SC 19 (Scotland)	1.99	25	1.97	4.00	1.99	2003	8.70	1999	6.34	> 1983
SC 20 (Scotland)	2.24	25	4.10	4.23	0.87	1998	8.24	1986	6.95	1983
SC 21 (Scotland)	+0.46	25	+0.58	0.56	+0.53	2000	1.14	1999	0.39	1983
SC 22 (Scotland)	10.39	25	11.18	11.00	9.78	2001	12.77	1986	12.06	1984
SC 23 (Scotland)	1.65	25	1.24	2.55	+0.91	1998	2.94	1995	2.40	1983
SM 7 (Salem)	8.02	30	8.39	9.20	4.75	2001	12.15	1986	10.88	1979
SW 64 (S. Windsor)	8.15	25	9.28	11.57	8.15	2003	14.30	1966	11.28	> 1934
SY 15 (Salisbury)	12.40	24	12.20	13.26	11.48	2000	14.37	1988	13.16	1966
SY 23 (Salisbury)	5.15	24	6.20	6.50	5.15	2003	10.34	1995	7.91	> 1987
SY 24 (Salisbury)	8.67	24	10.22	10.65	8.67	1989/2003	14.47	1995	11.74	> 1986
WB 93 (Waterbury)	26.00	23	27.60	27.27	25.07	1972	28.00	1957	27.54	1943
WB 198 (Waterbury)	12.02	23	14.08	16.00	9.47	1972	19.01	1985	13.76	1943
WY 1 (Woodbury)	20.89	24	21.35	21.67	20.18	1972	30.05	1915	23.14	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.