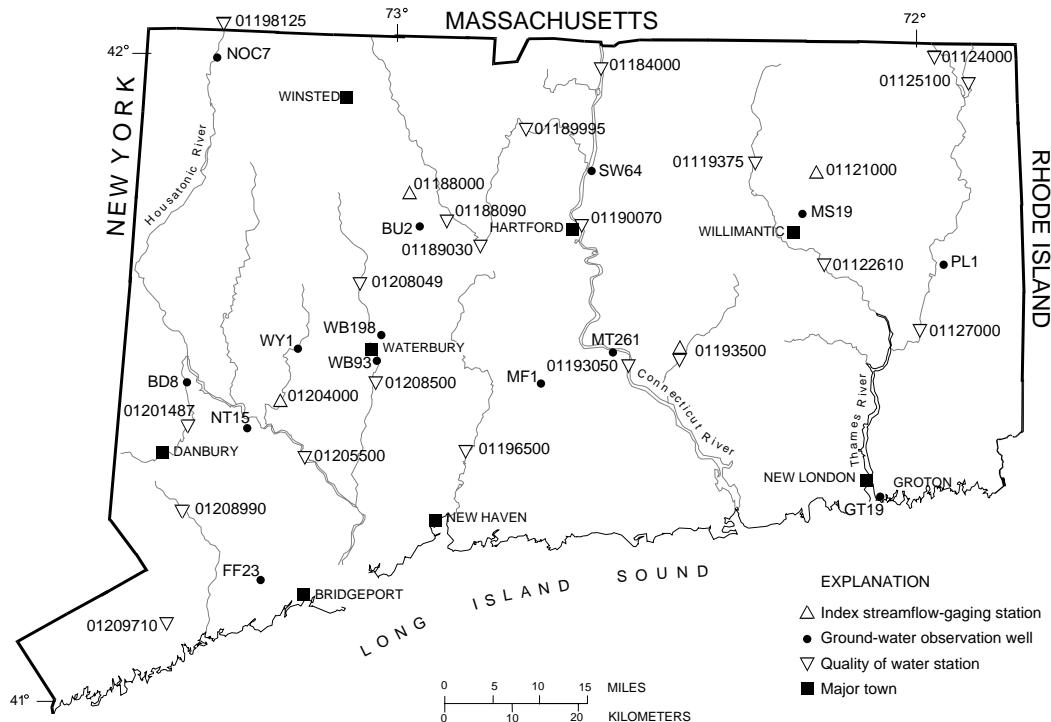


U.S. Department of the Interior U.S. Geological Survey



WATER-RESOURCES CONDITIONS IN CONNECTICUT, FEBRUARY 2001

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

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| Data Sites | 1 | Water Quality | 3 |
| Streamflow | 2 | Ground Water | 4 |

STREAMFLOW (measured in cubic feet per second)

→ PROVISIONAL DATA ←

Streamflows in February were in the below-normal to low-range for the entire State. Flow in Mount Hope River (NE Connecticut) remained in the below-normal range for the second consecutive month. Flows in Burlington Brook (NW Connecticut), Salmon River (SE Connecticut) and Pomperaug River (SW Connecticut) moved to the normal range after being in the below-normal range for one month. Across the State, mean streamflow for February averaged 73 percent of the February long-term median value.

| USGS STREAMFLOW-GAGING STATION NAME AND NUMBER | FEB. 2001 MEAN | JAN. 2001 MEAN | FEB. 2000 MEAN | FEB. MAXIMUM VALUE (year recorded) | FEB. MINIMUM VALUE (year recorded) | FEB. MEDIAN (1961-90) |
|--|----------------|----------------|----------------|------------------------------------|------------------------------------|-----------------------|
| MT HOPE RIVER (01121000) | 38.5 | 22.6 | 67.7 | 203 | 1970 | 68.1 |
| BURLINGTON (01188000) | 5.84 | 3.60 | 9.96 | 25.0 | 1981 | 8.31 |
| SALMON RIVER (01193500) | 175 | 96.7 | 196 | 623 | 1973 | 247 |
| POMPERAUG (01204000) | 129 | 78.7 | 143 | 366 | 1970 | 161 |

MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

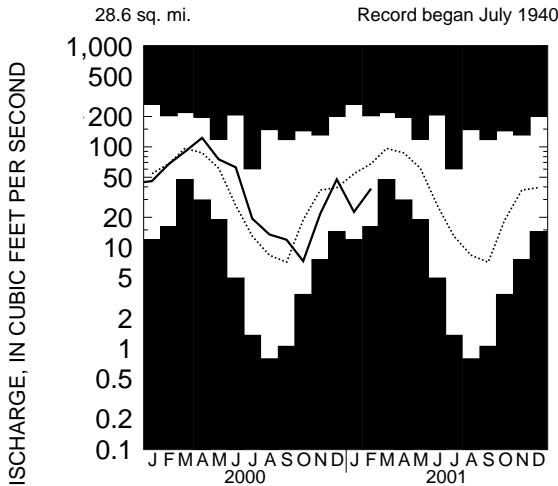
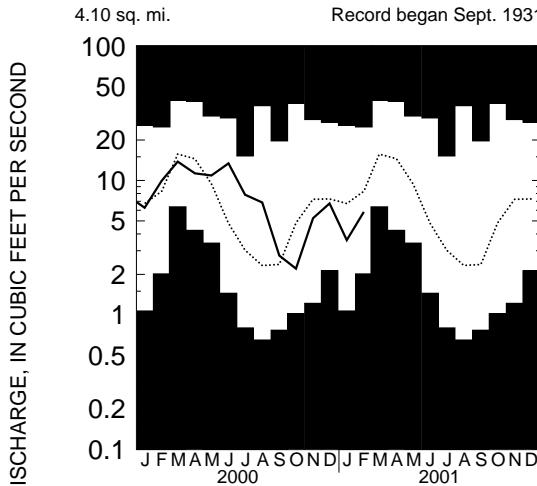
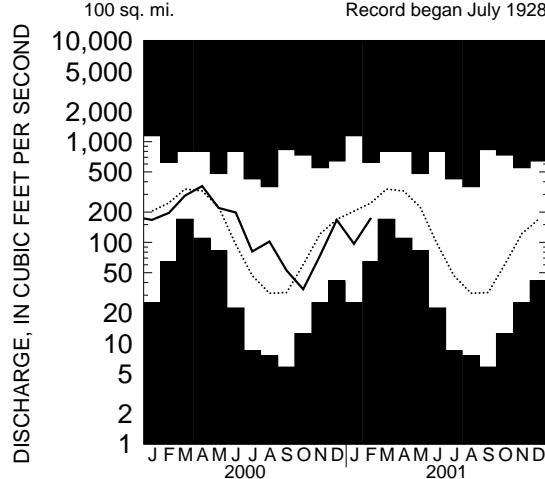
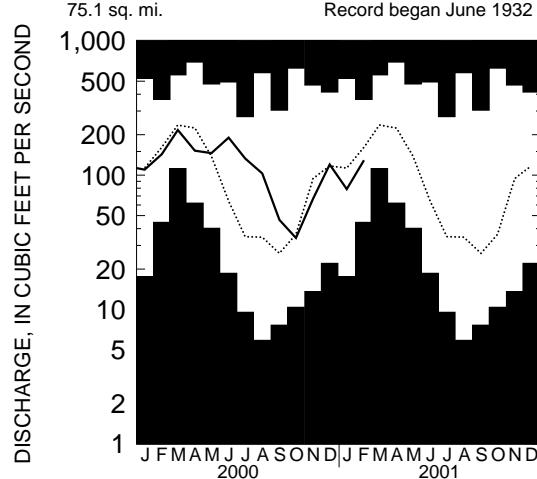
Shaded areas on graphs show highest and lowest monthly mean discharge of record.



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 ←

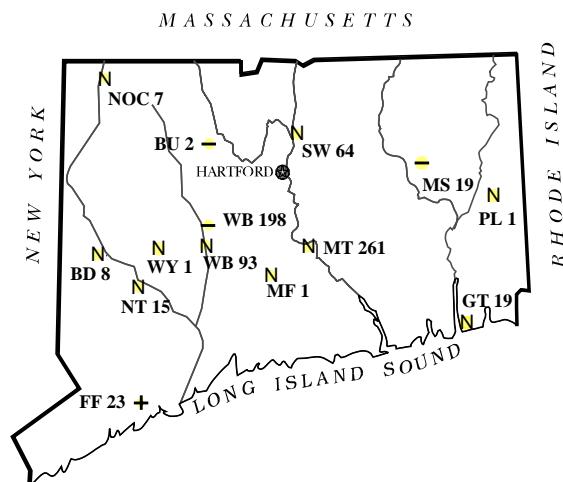
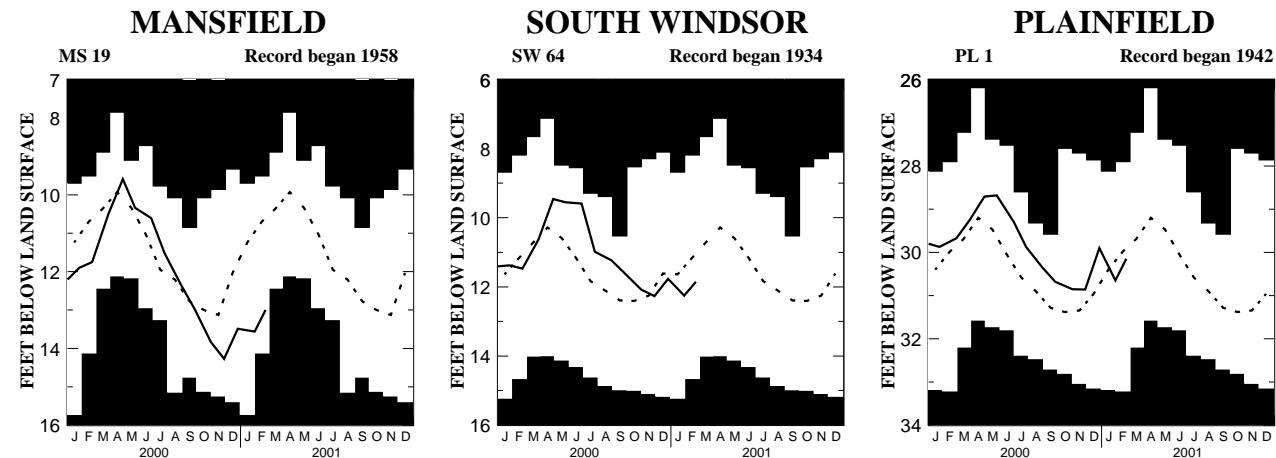
[Station locations shown on front page; --, not applicable; —, not available; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using 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 2001 | 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 | | | | | | | | |
| 01122610 Shetucket R. at South Windham | 2/15 | 570/ -- | 132 | 2.0 | 14.1/103 | 7.40 | 27 | 30 |
| 01124000 Quinebaug R. at Quinebaug | | | | | | | | |
| 01125100 French R. at North Grosvenordale | | | | | | | | |
| 01127000 Quinebaug R. at Jewett City | | | | | | | | |
| 01184000 Connecticut R. at Thompsonville | 2/20 | 8200/65 | 150 | 1.0 | 13.9/97 | 7.70 | 1140 | 116 |
| 01188090 Farmington R. at Unionville | | | | | | | | |
| 01189030 Pequabuck R. at Farmington | 2/27 | 123/ -- | 291 | 1.5 | 11.8/84 | 7.20 | 720 | 940 |
| 01189995 Farmington R. at Tariffville | 2/5 | 556/73 | 220 | 1.0 | 14.3/99 | 7.60 | 880 | 208 |
| 01190070 Connecticut R. at Hartford | 2/14 | -- / -- | 162 | 1.0 | 14.6/102 | 7.36 | 400 | 124 |
| 01193050 Connecticut R. at Middle Haddam | 2/14 | -- / -- | 198 | 1.5 | 14.0/99 | 7.52 | 440 | 84 |
| 01193500 Salmon R. near East Hampton | | | | | | | | |
| 01196500 Quinnipiac R. at Wallingford | 2/13 | 186/39 | 452 | 3.0 | 14.3/105 | 7.80 | 168 | 84 |
| 01198125 Housatonic R. near Ashley Falls, MA | | | | | | | | |
| 01201487 Still R. at Rt. 7 at Brookfield Center | | | | | | | | |
| 01205500 Housatonic R. at Stevenson | | | | | | | | |
| 01208049 Naugatuck R. near Waterville | | | | | | | | |
| 01208500 Naugatuck R. at Beacon Falls | | | | | | | | |
| 01208990 Saugatuck R. near Redding | | | | | | | | |
| 01209710 Norwalk R. near Winnipauk | 2/12 | 43.0/ -- | 370 | 1.0 | 16.0/110 | 8.00 | 5 K | 17 K |

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 2000.
- 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.



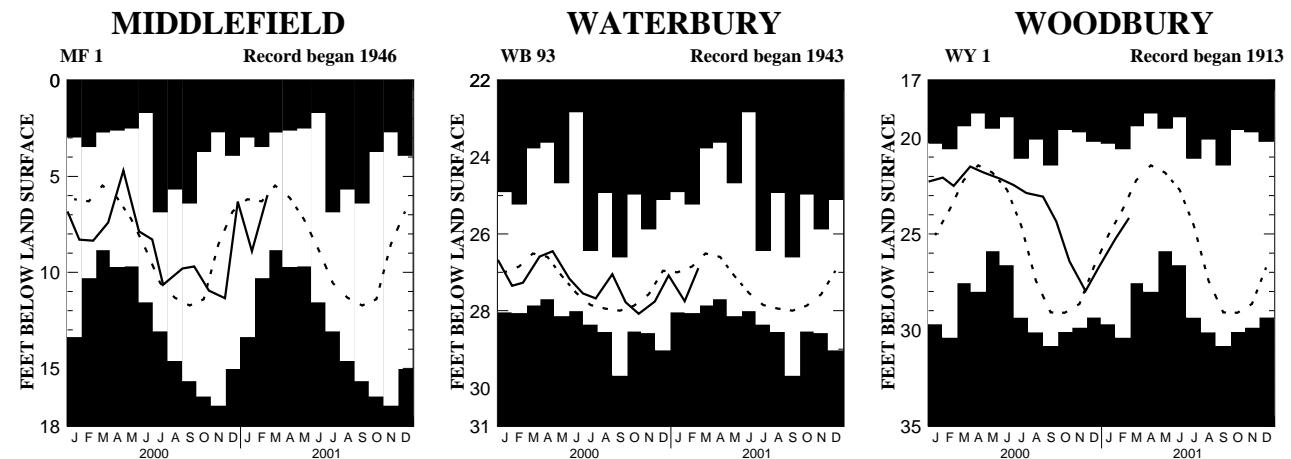
NORMAL RANGE

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

Fourteen low and four high ground-water levels were recorded for the month of February.

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 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 RE-CORD | YR RECORD BEGAN |
|-----------------------|---|-----------|-----------|------------------------|-------|------------------------|-------|-------------|-------------|-----------------|
| | FEB. 2001 (DATE) | JAN. 2001 | FEB. 2000 | FEB. MAX (YR RECORDED) | | FEB. MIN (YR RECORDED) | | FEB. MEDIAN | | |
| BD 8 (Brookfield) | 30.51 | 28 | 31.20 | 30.61 | 27.55 | 1970/73 | 32.08 | 1985 | 30.23 | |
| BU 2 (Burlington) | 30.39 | 23 | 31.40 | 26.99 | 15.69 | 1953 | 33.18 | 1985 | 19.56 | |
| BU 143 (Burlington) | 6.80 | 23 | 7.78 | 4.02 | 3.13 | 1996 | 6.80 | 2001 | NA | < |
| BU 144 (Burlington) | 2.62 | 23 | 2.71 | 2.62 | 2.61 | 1999 | 3.62 | 1997 | NA | |
| CL 223 (Clinton) | 3.17 | 22 | 4.26 | 3.05 | 1.69 | 1994 | 3.96 | 1992 | 3.42 | |
| CL 224 (Clinton) | 20.25 | 22 | 21.24 | 20.90 | 18.70 | 1996 | 20.90 | 2000 | 19.72 | |
| CL 225 (Clinton) | 5.87 | 22 | 5.98 | 5.81 | 5.10 | 1996 | 5.87 | 1997/01 | 5.51 | < |
| CO 335 (Colchester) | 6.61 | 27 | 7.47 | 7.00 | 5.82 | 1998 | 7.11 | 1991 | 6.65 | |
| CV 51 (Coventry) | 4.46 | 23 | 4.57 | 4.22 | 3.69 | 1999 | 4.54 | 1995 | 4.10 | |
| D 116 (Durham) | 0.08 | 27 | 0.27 | 1.09 | 0.07 | 1998 | 1.09 | 2000 | 0.46 | |
| D 117 (Durham) | 9.34 | 27 | 10.56 | 11.38 | 6.40 | 1996 | 11.38 | 2000 | 9.76 | |
| D 119 (Durham) | 0.05 | 27 | 0.26 | 1.05 | 0.05 | 1998/01 | 1.34 | 1994 | 0.34 | > |
| D 120 (Durham) | 1.25 | 27 | 1.93 | 2.22 | +0.05 | 1994 | 2.44 | 1987 | 1.92 | |
| EL 82 (Ellington) | 4.90 | 23 | 6.16 | 5.87 | 4.90 | 2001 | 5.91 | 1999 | 5.67 | >> |
| EL 139 (Ellington) | 21.58 | 23 | 26.96 | 21.43 | 18.44 | 1996 | 21.58 | 2001 | 20.38 | < |
| EL 140 (Ellington) | 13.10 | 23 | 17.89 | 12.53 | 11.54 | 1996 | 13.10 | 2001 | 12.26 | < |
| EW 133 (East Windsor) | 5.03 | 23 | 5.14 | 5.03 | 4.02 | 1994 | 5.15 | 1993 | 4.60 | |
| EW 134 (East Windsor) | 51.49 | 23 | 51.51 | 51.40 | 49.18 | 1990 | 53.50 | 1999 | 50.80 | |
| FF 23 (Fairfield) | 7.48 | 27 | 7.80 | 7.95 | 6.80 | 1979 | 8.43 | 1969 | 7.79 | |
| FF 30 (Fairfield) | 1.06 | 27 | 2.05 | 1.67 | 0.87 | 1996 | 2.74 | 1997 | 1.72 | |
| FF 31 (Fairfield) | 5.43 | 27 | 6.82 | 6.15 | 3.48 | 1998 | 6.15 | 2000 | 4.80 | |
| FF 32 (Fairfield) | frozen | 27 | frozen | 5.90 | 5.20 | 1996 | 6.03 | 1995 | 5.72 | |
| FF 33 (Fairfield) | 4.27 | 27 | 4.73 | 4.85 | 4.27 | 2001 | 4.98 | 1999 | 4.81 | > |
| GR 328 (Granby) | 15.07 | 23 | 14.96 | 11.01 | 7.46 | 1996 | 15.25 | 1985 | 10.42 | |
| GR 329 (Granby) | 6.62 | 23 | 6.57 | 4.88 | 2.90 | 1999 | 7.79 | 1985 | 4.54 | |
| GR 330 (Granby) | 2.78 | 23 | 2.90 | 2.52 | 1.72 | 1996 | 3.67 | 1987 | 3.01 | |
| GR 331 (Granby) | 10.29 | 23 | 11.27 | 9.67 | 7.89 | 1984 | 10.80 | 1987 | 9.67 | |
| GT 19 (Groton) | 14.87 | 25 | 15.20 | 15.14 | 12.20 | 1960 | 16.37 | 1981 | 14.44 | |
| HM 445 (Hamden) | 16.72 | 28 | 23.76 | 21.30 | 14.05 | 1998 | 21.30 | 2000 | 19.83 | |
| HM 446 (Hamden) | 2.95 | 28 | 3.62 | 3.25 | 2.52 | 1996 | 3.74 | 1994 | 2.86 | |
| HM 447 (Hamden) | 2.31 | 28 | 3.03 | 2.55 | 1.61 | 1996 | 2.55 | 2000 | NA | |
| HM 448 (Hamden) | 12.82 | 28 | 13.51 | 13.00 | 11.86 | 1996 | 13.59 | 1994 | NA | |
| HM 449 (Hamden) | 14.16 | 28 | 16.84 | 16.00 | 11.92 | 1996 | 16.63 | 1994 | NA | |
| HM 450 (Hamden) | 11.15 | 28 | 13.39 | 13.30 | 11.15 | 2001 | 13.66 | 1994 | NA | > |

| | | GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE | | | | | | | | | |
|------------------------|--------|---|-------|-----------|-----------|------------------------|------------------------|-------------|-------------|-----------------|------|
| WELL NUMBER AND TOWN | | FEB. 2001 (DATE) | | JAN. 2001 | FEB. 2000 | FEB. MAX (YR RECORDED) | FEB. MIN (YR RECORDED) | FEB. MEDIAN | NEW RE-CORD | YR RECORD BEGAN | |
| MB 32 (Marlborough) | 3.58 | 27 | 5.65 | 4.37 | 1.21 | 1998 | 6.33 | 1999 | 3.34 | | 1986 |
| MB 35 (Marlborough) | 10.12 | 27 | 11.65 | 9.60 | 5.65 | 1998 | 10.12 | 2001 | 7.28 | < | 1993 |
| MB 36 (Marlborough) | 2.04 | 27 | 3.30 | 2.56 | 2.01 | 1998 | 3.18 | 1997 | 2.84 | | 1993 |
| MF 1 (Middlefield) | 5.98 | 27 | 8.90 | 8.35 | 3.45 | 1961 | 10.28 | 1985 | 6.30 | | 1946 |
| MS 19 (Mansfield) | 13.00 | 23 | 13.56 | 11.75 | 9.51 | 1990 | 14.12 | 1966 | 10.70 | | 1958 |
| MS 44 (Mansfield) | 1.19 | 23 | 2.53 | 2.90 | 0.40 | 1998 | 3.55 | 1987 | 2.34 | | 1982 |
| MS 45 (Mansfield) | 12.90 | 23 | 12.87 | 12.49 | 10.64 | 1996 | 12.90 | 2001 | NA | < | 1987 |
| MS 46 (Mansfield) | 13.82 | 23 | 13.84 | 14.55 | 12.07 | 1994 | 14.55 | 2000 | 12.84 | | 1987 |
| MS 74 (Mansfield) | 2.60 | 23 | 5.08 | 2.50 | 0.39 | 1994 | 2.60 | 2001 | 1.71 | < | 1992 |
| MS 75 (Mansfield) | 13.49 | 23 | 14.27 | 9.57 | 4.73 | 1996 | 13.49 | 2001 | 6.32 | < | 1992 |
| MS 76 (Mansfield) | 31.35 | 23 | 29.92 | 32.30 | 29.57 | 1994 | 31.35 | 2001 | 30.68 | < | 1992 |
| MS 77 (Mansfield) | 2.88 | 23 | 4.40 | 2.63 | 0.90 | 1997 | 2.88 | 2001 | 1.75 | < | 1993 |
| MT 261 (Middletown) | 19.66 | 27 | 20.18 | 20.03 | 18.09 | 1981 | 21.68 | 1966 | 19.65 | | 1956 |
| NHV 201 (North Haven) | 15.99 | 27 | 16.40 | 16.48 | 13.92 | 1976 | 17.23 | 1985 | 15.83 | | 1975 |
| NHV 202 (North Haven) | 43.55 | 27 | 44.35 | 50.15 | 39.05 | 1979 | 58.51 | 1985 | 52.36 | | 1975 |
| NOC 7 (North Canaan) | 9.30 | 27 | 9.57 | 8.81 | 8.50 | 1981 | 9.84 | 1977 | 9.40 | | 1958 |
| NSN 77 (N. Stonington) | 10.12 | 22 | 11.65 | 10.16 | 7.12 | 1998 | 11.26 | 1992 | 10.12 | | 1991 |
| NSN 78 (N. Stonington) | 4.21 | 22 | 4.55 | 3.83 | 3.53 | 1995 | 4.52 | 1993 | 3.77 | | 1991 |
| NT 15 (Newtown) | 4.05 | 28 | 6.64 | 5.40 | 2.06 | 1975 | 6.78 | 1981 | 4.23 | | 1966 |
| PL 1 (Plainfield) | 30.15 | 22 | 30.65 | 29.67 | 27.90 | 1979 | 32.69 | 1966 | 29.96 | | 1942 |
| SB 30 (Southbury) | 18.63 | 28 | 19.87 | 18.43 | 16.06 | 1996 | 19.60 | 1992 | 18.21 | | 1979 |
| SB 39 (Southbury) | 6.44 | 28 | 7.26 | 6.58 | 4.79 | 1996 | 6.58 | 2000 | 6.22 | | 1991 |
| SB 41 (Southbury) | 47.50 | 28 | 48.57 | 48.31 | 45.96 | 1997 | 48.31 | 2000 | 46.47 | | 1991 |
| SB 42 (Southbury) | 12.30 | 28 | 13.30 | 12.00 | 11.16 | 1996 | 12.57 | 1997 | 11.94 | | 1993 |
| SC 19 (Scotland) | 3.02 | 22 | 5.65 | 1.91 | 1.40 | 1996 | 3.10 | 1995 | 2.70 | | 1983 |
| SC 20 (Scotland) | 6.96 | 22 | 8.39 | 3.79 | 0.35 | 1998 | 6.96 | 2001 | 3.86 | < | 1983 |
| SC 21 (Scotland) | 1.05 | 22 | 1.42 | +0.13 | +0.41 | 1996 | 1.05 | 2001 | +0.28 | < | 1983 |
| SC 22 (Scotland) | 12.40 | 22 | 13.22 | 11.18 | 8.84 | 1996 | 12.40 | 2001 | 10.83 | < | 1984 |
| SC 23 (Scotland) | 2.14 | 22 | 2.42 | 1.50 | 1.45 | 1998 | 2.14 | 2001 | 1.66 | < | 1983 |
| SM 7 (Salem) | 8.54 | 22 | 10.98 | 9.16 | 6.79 | 1998 | 11.50 | 1980 | 8.77 | | 1979 |
| SW 64 (S. Windsor) | 11.85 | 23 | 12.25 | 11.47 | 8.19 | 1976 | 14.65 | 1966 | 11.17 | | 1934 |
| SY 15 (Salisbury) | frozen | 26 | 13.55 | frozen | 9.10 | 1996 | 14.32 | 1998 | 13.03 | | 1966 |
| SY 23 (Salisbury) | 5.94 | 26 | 7.15 | 4.90 | 4.34 | 1996 | 7.61 | 1989 | 6.15 | | 1987 |
| SY 24 (Salisbury) | 12.09 | 26 | 13.10 | 12.25 | 8.89 | 1996 | 13.49 | 1989 | 11.29 | | 1986 |
| WB 93 (Waterbury) | 26.89 | 28 | 27.75 | 27.27 | 21.45 | 1999 | 27.98 | 1977 | 26.90 | | 1943 |
| WB 198 (Waterbury) | 16.65 | 28 | 18.45 | 14.25 | 9.48 | 1960 | 19.69 | 1985 | 13.46 | | 1943 |
| WY 1 (Woodbury) | 24.16 | 28 | 25.25 | 22.50 | 20.56 | 1973 | 30.38 | 1977 | 24.44 | | 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