

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2010

Station: Westford
 Latitude: 44° 37' 39" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

| Date | Temperature | | | | | Humidity Mean | Deg. Days | | Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw | Snow Cvr | Precip | | Pressure Adj. to Sea Level | | | Wind | | | | | | Sun | |
|-----------------|-------------|---------|-----------------|------|-----------|------------------|---------------------|-------------------|---|---------------|------------------|------------------|-------------------------------|---------|---|--------------|--------------|------------|-------|-----|--------|-----|-----|
| | Maximum | Minimum | Average | Mean | Dew Point | | Heating Base 65°F | Cooling Base 65°F | | | Water Equivalent | Ice Pellets Snow | Maximum | Minimum | Mean | Avg Speed | Res Speed | Res Dir | Peak | | Minute | | |
| | | | | | | | | | | | | | | | | | | | Speed | Dir | Speed | | Dir | Speed | Dir |
| 1 | 2 | 3 | 4A | 4B | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1 | 21.4 | 7.5 | 14.4 | 16.9 | 6 | 63 | 50 | 0 | ..... | 2 | T | T | 30.16 | 29.88 | 30.070 | 5.5 | 4.9 | 276 | 23 | SW | 14 | 301 | |
| 2 | 24.5 | 9.2 | 16.8 | 16.9 | 8 | 67 | 48 | 0 | ..... | 2 | 0.01 | 0.5 | 30.25 | 30.08 | 30.170 | 0.6 | 0.2 | 261 | 10 | N | 4 | 5 | |
| 3 | 26.3 | 16.1 | 21.2 | 20.6 | 16 | 82 | 44 | 0 | ..... | 2 | 0.02 | 0.3 | 30.08 | 29.98 | 30.029 | 0.8 | 0.4 | 276 | 8 | WNW | 5 | 294 | |
| 4 | 22.1 | 6.7 | 14.4 | 15.7 | 4 | 61 | 50 | 0 | ..... | 2 | 0.03 | 0.8 | 30.32 | 30.02 | 30.242 | 4.1 | 3.8 | 314 | 25 | WNW | 14 | 299 | |
| 5 | 24.2 | 7.2 | 15.7 | 16.6 | 5 | 62 | 49 | 0 | ..... | 3 | 0.03 | 1.1 | 30.25 | 30.11 | 30.201 | 1.9 | 1.7 | 344 | 17 | NNE | 9 | 294 | |
| 6 | 14.7 | 2.4* | 8.5* | 7.5 | -0 | 71 | 56 | 0 | ..... | 3 | 0.00 | 0.0 | 30.11 | 29.91 | 29.996 | 1.5 | 1.4 | 14 | 15 | NW | 8 | 336 | |
| 7 | 20.1 | 9.1 | 14.6 | 15.1 | 8 | 74 | 50 | 0 | ..... | 3 | 0.02 | 0.5 | 29.92 | 29.82 | 29.866 | 4.0 | 3.8 | 320 | 23 | WNW | 15 | 312 | |
| 8 | 17.8 | 11.7 | 14.7 | 14.9 | 9 | 75 | 50 | 0 | ..... | 4 | 0.05 | 1.4 | 29.99 | 29.83 | 29.903 | 3.5 | 3.4 | 317 | 19 | NW | 12 | 311 | |
| 9 | 27.7 | 11.9 | 19.8 | 19.0 | 11 | 72 | 45 | 0 | ..... | 4 | 0.00 | 0.0 | 30.09 | 29.80 | 29.992 | 0.9 | 0.7 | 312 | 15 | W | 9 | 293 | |
| 10 | 27.2 | 16.1 | 21.7 | 21.1 | 15 | 77 | 43 | 0 | ..... | 3 | T | T | 29.80 | 29.41 | 29.541 | 0.9 | 0.8 | 8 | 13 | NE | 5 | 38 | |
| 11 | 29.4 | 13.0 | 21.2 | 20.5 | 12 | 71 | 44 | 0 | ..... | 3 | T | T | 29.72 | 29.48 | 29.611 | 1.6 | 1.5 | 1 | 13 | NE | 7 | 21 | |
| 12 | 25.5 | 7.6 | 16.5 | 15.7 | 5 | 63 | 48 | 0 | ..... | 3 | 0.00 | 0.0 | 29.82 | 29.72 | 29.779 | 1.2 | 1.0 | 316 | 12 | WNW | 8 | 291 | |
| 13 | 24.0 | 9.9 | 16.9 | 18.4 | 11 | 71 | 48 | 0 | ..... | 3 | 0.00 | 0.0 | 29.76 | 29.38 | 29.562 | 1.1 | 0.9 | 287 | 14 | W | 9 | 265 | |
| 14 | 25.9 | 20.5 | 23.2 | 22.9 | 17 | 78 | 41 | 0 | ..... | 4 | 0.02 | 1.4 | 29.53 | 29.36 | 29.421 | 3.7 | 3.5 | 288 | 21 | WNW | 12 | 301 | |
| 15 | 31.6 | 20.4 | 26.0 | 25.8 | 17 | 69 | 39 | 0 | ..... | 4 | 0.02 | 0.9 | 29.68 | 29.52 | 29.609 | 3.5 | 3.5 | 269 | 19 | W | 11 | 300 | |
| 16 | 35.1 | 19.6 | 27.3 | 26.9 | 19 | 72 | 37 | 0 | ..... | 4 | 0.00 | 0.0 | 29.64 | 29.44 | 29.520 | 1.6 | 1.4 | 355 | 16 | NW | 7 | 344 | |
| 17 | 31.5 | 25.2 | 28.4 | 28.1 | 21 | 76 | 36 | 0 | ..... | 3 | T | T | 29.45 | 29.37 | 29.411 | 1.5 | 1.3 | 287 | 11 | WNW | 7 | 245 | |
| 18 | 32.7 | 25.8 | 29.3 | 29.4 | 25 | 82 | 35 | 0 | ..... | 3 | 0.07 | 0.4 | 29.50 | 29.36 | 29.431 | 4.4 | 4.1 | 292 | 25 | WNW | 14 | 305 | |
| 19 | 28.8 | 22.9 | 25.8 | 25.6 | 21 | 83 | 39 | 0 | ..... | 5 | 0.24 | 2.8 | 29.83 | 29.47 | 29.635 | 3.7 | 3.5 | 314 | 20 | WNW | 10 | 315 | |
| 20 | 32.7 | 27.3 | 30.0 | 29.6 | 25 | 82 | 35 | 0 | ..... | 5 | 0.06 | T | 29.89 | 29.81 | 29.844 | 3.0 | 2.9 | 307 | 19 | WNW | 10 | 310 | |
| 21 | 27.6 | 19.7 | 23.7 | 23.9 | 18 | 80 | 41 | 0 | ..... | 7 | 0.07 | 3.0 | 29.98 | 29.81 | 29.896 | 2.9 | 2.9 | 323 | 15 | NW | 9 | 315 | |
| 22 | 38.1 | 23.2 | 30.6 | 28.9 | 22 | 76 | 34 | 0 | ..... | 5 | 0.00 | 0.0 | 30.01 | 29.87 | 29.947 | 0.7 | 0.5 | 70 | 12 | NNE | 7 | 48 | |
| 23 | 37.9 | 31.1 | 34.5 | 34.2 | 27 | 77 | 30 | 0 | ..... | 6 | 0.09 | 1.1 | 29.92 | 29.85 | 29.883 | 3.9 | 3.9 | 183 | 22 | S | 12 | 200 | |
| 24 | 34.1 | 30.4 | 32.2 | 32.1 | 30 | 93 | 33 | 0 | ..... | 25 | 1.64 | 18.8 | 29.92 | 29.74 | 29.860 | 0.0 | 0.0 | 30 | 6 | NNE | 3 | 21 | |
| 25 | 42.2 | 32.5 | 37.4 | 36.8 | 33 | 87 | 27 | 0 | ..... | 15 | 0.10 | T | 29.74 | 29.19 | 29.528 | 1.9 | 1.5 | 31 | 21 | NNE | 11 | 72 | |
| 26 | 43.9* | 32.5 | 38.2* | 39.1 | 31 | 73 | 26 | 0 | ..... | 10 | 0.01 | T | 29.46 | 29.10 | 29.320 | 3.0 | 2.8 | 53 | 23 | ESE | 13 | 76 | |
| 27 | 39.7 | 27.8 | 33.8 | 33.3 | 29 | 83 | 31 | 0 | ..... | 10 | 0.20 | 3.5 | 29.60 | 29.34 | 29.462 | 0.8 | 0.6 | 114 | 14 | ESE | 7 | 72 | |
| 28 | 38.4 | 23.2 | 30.8 | 30.8 | 27 | 86 | 34 | 0 | ..... | 10 | 0.03 | 0.2 | 29.66 | 29.59 | 29.633 | 1.4 | 1.2 | 338 | 14 | NW | 7 | 320 | |
| Sum | Sum | ----- | ----- | --- | ---- | Ttl | Ttl | | | | | | For the month: | | | | | | | | | | --- |
| 825 | 511 | | | | | 1143 | 0 | Number of Days | | 2.71 | 36.7 | 30.32 | 29.10 | 29.763 | 2.3 | 1.4 | 311 | 25 | WNW | 15 | 312 | | |
| Avg | Avg | Avg | Mean | Avg | Avg | ---- | ---- | Precip | | Season Ttl | Date | Date | ----- | ---- | ---- | --- | Date | Date | Avg | | | | |
| 29.5 | 18.2 | 23.9 | 23.8 | 17 | 75.2 | ---- | ---- | ≥.01 inch | 18 | 5.40 | 101.4 | 4 | 26 | ----- | ---- | ---- | --- | 4+ | 7 | | | | |
| Number of Days | | | | | | Season to Date | Snow, Ice ≥1.0 inch | 8 | Greatest in 24 Hours and Dates | | | | | | Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date | | | | | | | | |
| Max Temperature | | | Min Temperature | | | 5431 | 0 | Thunder | 0 | Precipitation | | | Snow, Ice Plts | | | | | | | | | | |
| ≥ 90°F | ≤ 32°F | ≤ 32°F | ≤ 0°F | ---- | ---- | Heavy Fog | 0 | 0.00 | - | 18.8 | 24 | 25 | | 24 | | | | | | | | | |
| 0 | 18 | 26 | 0 | ---- | ---- | Clear | 1 | Partly Cloudy | | | 9 | Cloudy | | | 18 | | | | | | | | |

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Sunshine index is measured in Watts/m² and is continuously averaged for 24 hours.
 Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.

OBSERVATIONS AT 3-HOUR INTERVALS

February 2010: Westford

| Hour | FEB 19 | | | | | | | | | FEB 20 | | | | | | | | | FEB 21 | | | | | | | | |
|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|------|
| | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Direction | Speed | Gust | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Direction | Speed | Gust | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Direction | Speed | Gust |
| 01 | | 29.49 | 0.00 | 25 | 21 | 87 | 27 | 4 | 14 | | 29.83 | 0.00 | 28 | 23 | 81 | 33 | 3 | 9 | | 29.82 | 0.00 | 27 | 22 | 82 | 32 | 0 | 3 |
| 04 | | 29.49 | 0.00 | 24 | 21 | 89 | 27 | 5 | 8 | | 29.85 | 0.00 | 28 | 22 | 79 | 33 | 4 | 18 | | 29.83 | 0.00 | 21 | 17 | 86 | 32 | 2 | 9 |
| 07 | | 29.54 | 0.00 | 24 | 21 | 89 | 31 | 5 | 9 | | 29.88 | 0.00 | 28 | 23 | 81 | 30 | 1 | 9 | | 29.86 | 0.00 | 20 | 16 | 86 | 30 | 3 | 8 |
| 10 | | 29.60 | 0.00 | 24 | 20 | 82 | 32 | 5 | 16 | | 29.86 | 0.00 | 30 | 25 | 81 | 27 | 5 | 8 | | 29.90 | 0.00 | 22 | 17 | 81 | 31 | 6 | 12 |
| 13 | | 29.63 | 0.00 | 26 | 21 | 80 | 33 | 3 | 11 | | 29.82 | 0.00 | 32 | 28 | 84 | 25 | 4 | 8 | | 29.89 | 0.00 | 26 | 18 | 72 | 33 | 4 | 8 |
| 16 | | 29.68 | 0.00 | 27 | 21 | 80 | 34 | 0 | 5 | | 29.82 | 0.00 | 31 | 28 | 88 | 01 | 1 | 5 | | 29.92 | 0.00 | 26 | 19 | 75 | 00 | 3 | 12 |
| 19 | | 29.78 | 0.00 | 27 | 22 | 80 | 29 | 5 | 11 | | 29.85 | 0.00 | 30 | 25 | 81 | 30 | 4 | 13 | | 29.97 | 0.00 | 24 | 18 | 78 | 33 | 2 | 3 |
| 22 | | 29.81 | 0.00 | 29 | 23 | 79 | 33 | 3 | 15 | | 29.84 | 0.00 | 30 | 24 | 77 | 30 | 4 | 11 | | 29.97 | 0.00 | 24 | 18 | 78 | 33 | 0 | 0 |
| FEB 22 | | | | | | | | | FEB 23 | | | | | | | | | FEB 24 | | | | | | | | | |
| 01 | | 29.97 | 0.00 | 25 | 19 | 80 | 33 | 1 | 5 | | 29.86 | 0.00 | 34 | 25 | 69 | 14 | 2 | 10 | | 29.91 | 0.00 | 31 | 29 | 91 | 20 | 0 | 0 |
| 04 | | 29.97 | 0.00 | 24 | 19 | 82 | 06 | 0 | 1 | | 29.85 | 0.00 | 36 | 26 | 67 | 18 | 6 | 15 | | 29.91 | 0.00 | 31 | 29 | 93 | 20 | 0 | 0 |
| 07 | | 29.99 | 0.00 | 23 | 19 | 84 | 04 | 1 | 2 | | 29.86 | 0.00 | 34 | 26 | 71 | 17 | 5 | 11 | | 29.90 | 0.00 | 30 | 29 | 93 | 20 | 0 | 0 |
| 10 | | 30.00 | 0.00 | 28 | 21 | 76 | 06 | 0 | 2 | | 29.88 | 0.00 | 36 | 28 | 71 | 18 | 5 | 16 | | 29.91 | 0.00 | 32 | 30 | 93 | 20 | 0 | 0 |
| 13 | | 29.96 | 0.00 | 34 | 24 | 65 | 09 | 0 | 5 | | 29.87 | 0.00 | 37 | 27 | 67 | 18 | 6 | 13 | | 29.86 | 0.00 | 34 | 31 | 91 | 03 | 1 | 4 |
| 16 | | 29.89 | 0.00 | 37 | 26 | 63 | 05 | 1 | 8 | | 29.90 | 0.00 | 33 | 29 | 83 | 17 | 4 | 8 | | 29.83 | 0.00 | 34 | 32 | 92 | 03 | 0 | 0 |
| 19 | | 29.92 | 0.00 | 29 | 24 | 80 | 09 | 0 | 2 | | 29.92 | 0.00 | 32 | 29 | 90 | 19 | 1 | 5 | | 29.82 | 0.00 | 33 | 31 | 93 | 03 | 0 | 0 |
| 22 | | 29.89 | 0.00 | 29 | 24 | 81 | 08 | 0 | 2 | | 29.91 | 0.00 | 32 | 28 | 88 | 19 | 0 | 3 | | 29.77 | 0.00 | 33 | 31 | 94 | 03 | 0 | 0 |
| FEB 25 | | | | | | | | | FEB 26 | | | | | | | | | FEB 27 | | | | | | | | | |
| 01 | | 29.72 | 0.00 | 33 | 31 | 94 | 00 | 0 | 0 | | 29.13 | 0.00 | 38 | 35 | 88 | 01 | 3 | 20 | | 29.38 | 0.00 | 32 | 30 | 92 | 01 | 0 | 0 |
| 04 | | 29.67 | 0.00 | 33 | 31 | 94 | 00 | 0 | 0 | | 29.11 | 0.00 | 41 | 34 | 76 | 33 | 2 | 8 | | 29.34 | 0.00 | 31 | 30 | 94 | 01 | 0 | 0 |
| 07 | | 29.64 | 0.00 | 33 | 32 | 95 | 06 | 0 | 1 | | 29.23 | 0.00 | 39 | 32 | 75 | 06 | 3 | 14 | | 29.38 | 0.00 | 30 | 28 | 94 | 01 | 0 | 0 |
| 10 | | 29.61 | 0.00 | 38 | 35 | 88 | 06 | 0 | 2 | | 29.33 | 0.00 | 42 | 29 | 59 | 17 | 1 | 13 | | 29.43 | 0.00 | 37 | 32 | 80 | 06 | 1 | 11 |
| 13 | | 29.53 | 0.00 | 42 | 35 | 76 | 00 | 2 | 7 | | 29.40 | 0.00 | 40 | 30 | 69 | 04 | 3 | 15 | | 29.46 | 0.00 | 39 | 27 | 62 | 14 | 2 | 6 |
| 16 | | 29.45 | 0.00 | 39 | 34 | 82 | 29 | 2 | 8 | | 29.44 | 0.00 | 42 | 30 | 61 | 08 | 2 | 13 | | 29.50 | 0.00 | 36 | 29 | 76 | 12 | 2 | 7 |
| 19 | | 29.38 | 0.00 | 37 | 34 | 89 | 35 | 3 | 10 | | 29.45 | 0.00 | 34 | 29 | 82 | 01 | 0 | 0 | | 29.57 | 0.00 | 33 | 27 | 77 | 04 | 0 | 5 |
| 22 | | 29.30 | 0.00 | 40 | 34 | 81 | 07 | 6 | 19 | | 29.43 | 0.00 | 35 | 31 | 84 | 06 | 1 | 10 | | 29.59 | 0.00 | 31 | 26 | 83 | 16 | 0 | 2 |
| FEB 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | 29.61 | 0.00 | 30 | 25 | 82 | 15 | 0 | 4 | | | | | | | | | | | | | | | | | | |
| 04 | | 29.59 | 0.00 | 26 | 24 | 91 | 15 | 0 | 0 | | | | | | | | | | | | | | | | | | |
| 07 | | 29.62 | 0.00 | 25 | 23 | 91 | 14 | 0 | 2 | | | | | | | | | | | | | | | | | | |
| 10 | | 29.66 | 0.00 | 34 | 27 | 75 | 23 | 0 | 3 | | | | | | | | | | | | | | | | | | |
| 13 | | 29.63 | 0.00 | 37 | 28 | 70 | 35 | 3 | 8 | | | | | | | | | | | | | | | | | | |
| 16 | | 29.63 | 0.00 | 34 | 29 | 85 | 00 | 1 | 6 | | | | | | | | | | | | | | | | | | |
| 19 | | 29.66 | 0.00 | 32 | 30 | 92 | 35 | 1 | 7 | | | | | | | | | | | | | | | | | | |
| 22 | | 29.65 | 0.00 | 31 | 30 | 93 | 33 | 4 | 10 | | | | | | | | | | | | | | | | | | |

WEATHER NOTES

NOTES:
 Units are: Temperature= °F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Wind Direction: Directions are those from which the wind is blowing, indicated in tens of degrees from true north: i.e., 09 for East, 18 for South, 27 for West, and 00 or 36 for North.
 Wind Speed: The observed one-minute average speed in miles-per-hour.
 Wind Gust: The maximum instantaneous wind speed for the 10-minute period preceding the observation.
 Rainfall Rate: The instantaneous rainfall rate at the time of observation, calculated by timing consecutive 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

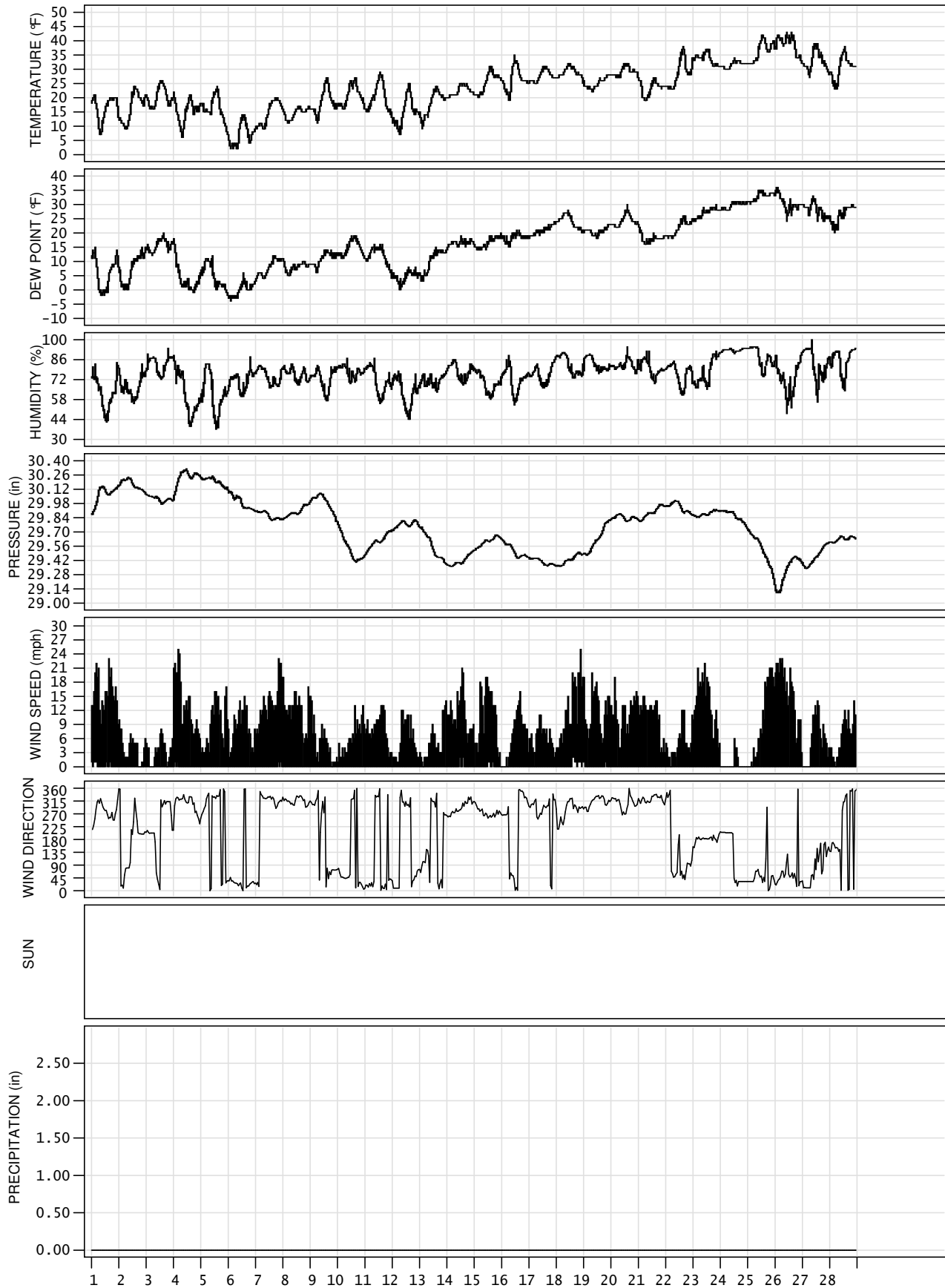
| Hour | Averages | | | | | | Resultant Wind | |
|------|----------|----------|-------------|-----------|----------|------------|----------------|-------|
| | Sunshine | Pressure | Temperature | Dew Point | Humidity | Wind Speed | Direction | Speed |
| 01 | | 29.750 | 22 | 17 | 79 | 1.5 | 30 | 0.9 |
| 04 | | 29.755 | 21 | 16 | 81 | 1.6 | 30 | 1.2 |
| 07 | | 29.776 | 20 | 15 | 81 | 1.7 | 32 | 1.0 |
| 10 | | 29.779 | 24 | 17 | 72 | 3.1 | 30 | 2.2 |
| 13 | | 29.755 | 28 | 18 | 66 | 3.2 | 31 | 2.1 |
| 16 | | 29.749 | 27 | 18 | 69 | 2.7 | 32 | 1.7 |
| 19 | | 29.771 | 24 | 18 | 76 | 1.5 | 30 | 1.1 |
| 22 | | 29.759 | 24 | 17 | 77 | 2.1 | 32 | 1.4 |

HOURLY PRECIPITATION (Water Equivalent) February 2010: Westford

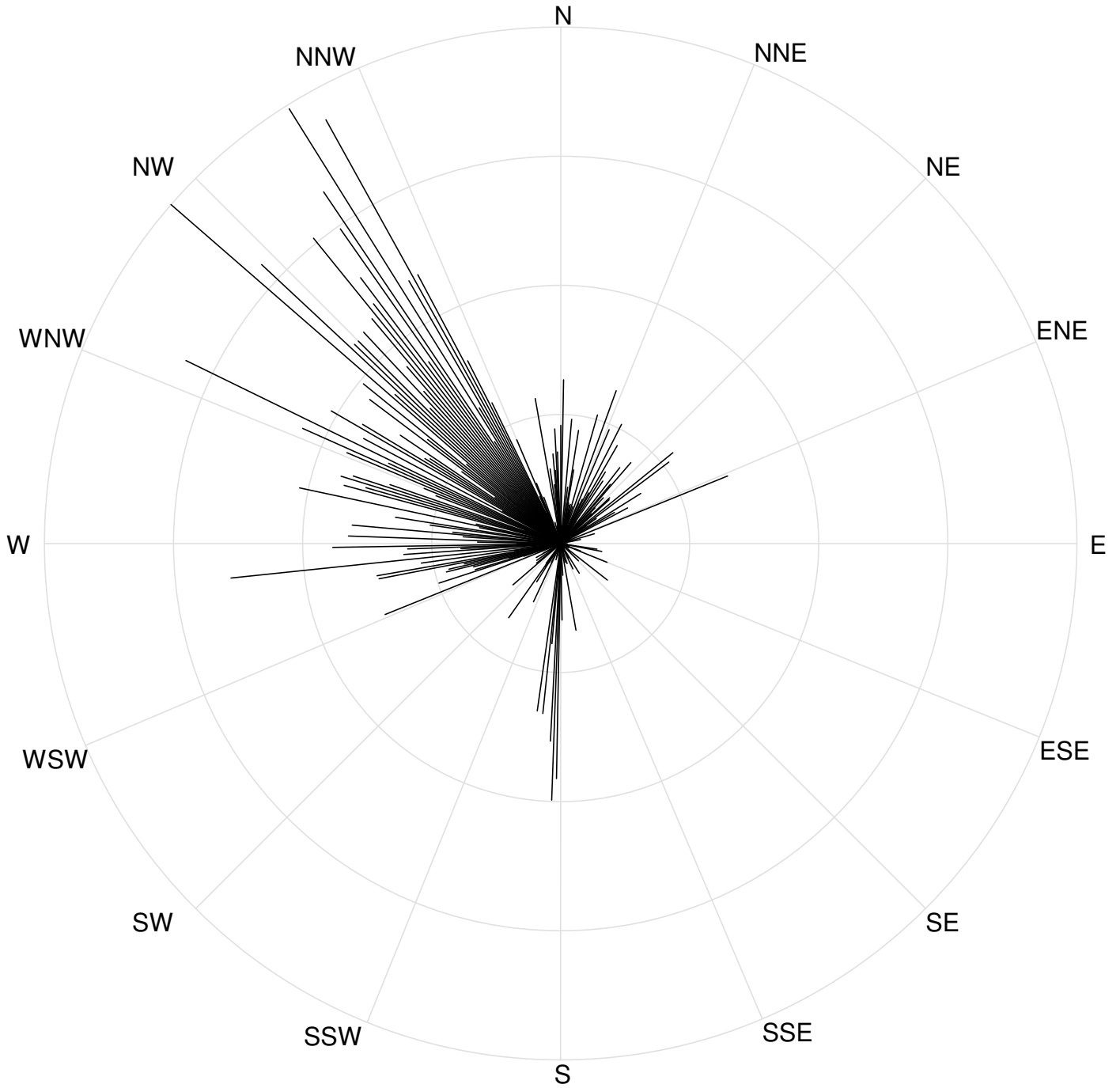
| Date | A.M. Hour Ending at | | | | | | | | | | | | P.M. Hour Ending at | | | | | | | | | | | | Date |
|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
| 01 | | | | | | | | | | | | | | | | | | | | | | | | 01 | |
| 02 | | | | | | | | | | | | | | | | | | | | | | | | | 02 |
| 03 | | | | | | | | | | | | | | | | | | | | | | | | | 03 |
| 04 | | | | | | | | | | | | | | | | | | | | | | | | | 04 |
| 05 | | | | | | | | | | | | | | | | | | | | | | | | | 05 |
| 06 | | | | | | | | | | | | | | | | | | | | | | | | | 06 |
| 07 | | | | | | | | | | | | | | | | | | | | | | | | | 07 |
| 08 | | | | | | | | | | | | | | | | | | | | | | | | | 08 |
| 09 | | | | | | | | | | | | | | | | | | | | | | | | | 09 |
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| 16 | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
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| 24 | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
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| 26 | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| Sum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Sum |

During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA February 2010: Westford



Wind Rose: February 2010
Westford



Maximum direction of wind: 34.3 miles from 311°.
1527.3 total miles of wind.