

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### October 2020

Station: Westford

Latitude: 44° 37' 38" N Longitude: 73° 02' 29" W Elevation (Ground): 850 feet Time Zone: Eastern

| Date            | Temperature |         |                 |      |           | Humidity<br>Mean | Deg. Days           |                   | Precip Ty<br>1 fog<br>2 hvy fog<br>3 thunder<br>4 ice plt<br>5 hail<br>6 glaze<br>7 duststm<br>8 smk, hz<br>9 blw snw | Snow Cvr      | Precip           |                  | Pressure<br>Adj. to Sea Level |         |   | Wind         |              |            |       |     |          | Solar<br>Radiation |     |
|-----------------|-------------|---------|-----------------|------|-----------|------------------|---------------------|-------------------|---|---------------|------------------|------------------|-------------------------------|---------|---|--------------|--------------|------------|-------|-----|----------|--------------------|-----|
|                 | Maximum     | Minimum | Average         | Mean | Dew Point |                  | Heating Base 65°F   | Cooling Base 65°F |   |               | Water Equivalent | Ice Pellets Snow | Maximum                       | Minimum | Mean  | Avg<br>Speed | Res<br>Speed | Res<br>Dir | Peak  |     | 2 Minute |                    |     |
|                 |             |         |                 |      |           |                  |                     |                   |   |               |                  |                  |                               |         |   |              |              |            | Speed | Dir | Speed    |                    | Dir |
| 1               | 2           | 3       | 4A              | 4B   | 5         | 6                | 7                   | 8                 |   | 11            | 12               | 13               | 14                            | 15      | 16  | 17           | 18           | 19         | 20    | 21  | 22       | 23                 |     |
| 1               | 65.3        | 45.4    | 55.4            | 56.4 | 49        | 76               | 10                  | 0                 | .....   | 0             | 0.00             | 0.0              | 29.91                         | 29.65   | 29.772  | 2.6          | 2.1          | 222        | 16    | S   | 10       | 265                | 114 |
| 2               | 53.0        | 41.4    | 47.2            | 46.8 | 46        | 96               | 18                  | 0                 | .....   | 0             | 0.48             | 0.0              | 30.01                         | 29.88   | 29.922  | 0.3          | 0.2          | 208        | 17    | WSW | 9        | 254                | 40  |
| 3               | 57.1        | 43.2    | 50.1            | 48.5 | 45        | 90               | 15                  | 0                 | .....   | 0             | 0.02             | 0.0              | 30.23                         | 30.01   | 30.131  | 0.1          | 0.1          | 249        | 8     | W   | 4        | 89                 | 84  |
| 4               | 60.8        | 38.8    | 49.8            | 47.4 | 42        | 85               | 15                  | 0                 | .....   | 0             | 0.01             | 0.0              | 30.27                         | 30.11   | 30.196  | 1.1          | 1.1          | 181        | 15    | SSE | 7        | 177                | 123 |
| 5               | 63.3        | 41.7    | 52.5            | 51.8 | 47        | 84               | 12                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.11                         | 30.06   | 30.088  | 1.2          | 1.1          | 191        | 12    | SSE | 7        | 177                | 108 |
| 6               | 64.3        | 44.0    | 54.2            | 54.7 | 48        | 79               | 11                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.09                         | 29.74   | 29.936  | 3.5          | 3.5          | 179        | 32    | SSE | 13       | 169                | 125 |
| 7               | 57.6        | 47.8    | 52.7            | 53.3 | 48        | 81               | 12                  | 0                 | ..3.....  | 0             | 0.61             | 0.0              | 29.75                         | 29.32   | 29.504  | 6.2          | 5.0          | 211        | 29    | W   | 17       | 254                | 25  |
| 8               | 48.5        | 31.6    | 40.1            | 42.7 | 36        | 76               | 24                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.07                         | 29.58   | 29.871  | 5.7          | 5.7          | 269        | 30    | W   | 17       | 266                | 84  |
| 9               | 57.6        | 28.4    | 43.0            | 42.9 | 33        | 72               | 22                  | 0                 | .....   | 0             | 0.01             | 0.0              | 30.16                         | 29.85   | 30.060  | 2.4          | 2.3          | 183        | 21    | S   | 9        | 177                | 157 |
| 10              | 69.8        | 49.6    | 59.7            | 60.2 | 51        | 71               | 5                   | 0                 | ..3.....  | 0             | 0.07             | 0.0              | 29.89                         | 29.56   | 29.711  | 6.6          | 5.8          | 186        | 28    | SSE | 13       | 177                | 101 |
| 11              | 51.6        | 33.1    | 42.3            | 42.7 | 33        | 69               | 22                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.30                         | 29.89   | 30.173  | 2.1          | 1.8          | 323        | 17    | ENE | 9        | 279                | 163 |
| 12              | 60.1        | 27.9    | 44.0            | 43.9 | 33        | 69               | 21                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.29                         | 30.09   | 30.212  | 1.6          | 1.6          | 159        | 19    | S   | 8        | 168                | 156 |
| 13              | 50.1        | 45.0    | 47.5            | 48.1 | 45        | 90               | 17                  | 0                 | .....   | 0             | 0.26             | 0.0              | 30.09                         | 29.82   | 29.939  | 2.4          | 2.3          | 168        | 21    | SSE | 8        | 177                | 35  |
| 14              | 62.4        | 37.3    | 49.9            | 49.9 | 44        | 83               | 15                  | 0                 | .....   | 0             | 0.03             | 0.0              | 29.93                         | 29.81   | 29.860  | 2.3          | 2.0          | 245        | 19    | WNW | 12       | 269                | 140 |
| 15              | 75.4        | 37.8    | 56.6            | 57.8 | 45        | 66               | 8                   | 0                 | .....   | 0             | 0.01             | 0.0              | 29.93                         | 29.67   | 29.805  | 4.3          | 3.8          | 183        | 37    | SSE | 17       | 169                | 121 |
| 16              | 53.7        | 41.9    | 47.8            | 47.0 | 46        | 96               | 17                  | 0                 | .....   | 0             | 0.82             | 0.0              | 30.17                         | 29.91   | 30.034  | 0.2          | 0.1          | 277        | 8     | W   | 4        | 224                | 14  |
| 17              | 54.2        | 33.9    | 44.1            | 43.3 | 38        | 83               | 21                  | 0                 | .....   | 0             | 0.01             | 0.0              | 30.34                         | 30.12   | 30.205  | 1.5          | 1.3          | 283        | 15    | W   | 9        | 250                | 134 |
| 18              | 59.3        | 33.3    | 46.3            | 46.9 | 34        | 64               | 19                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.43                         | 30.25   | 30.345  | 2.9          | 2.8          | 176        | 26    | SSE | 14       | 180                | 108 |
| 19              | 55.7        | 50.7    | 53.2            | 52.0 | 47        | 83               | 11                  | 0                 | .....   | 0             | 0.39             | 0.0              | 30.26                         | 30.16   | 30.228  | 4.4          | 4.4          | 176        | 32    | SSE | 14       | 175                | 26  |
| 20              | 55.7        | 43.8    | 49.8            | 50.1 | 48        | 94               | 15                  | 0                 | .....   | 0             | 0.19             | 0.0              | 30.32                         | 30.03   | 30.179  | 3.4          | 2.5          | 181        | 30    | SSE | 13       | 168                | 14  |
| 21              | 64.1        | 44.2    | 54.1            | 53.8 | 52        | 92               | 11                  | 0                 | .....   | 0             | 0.13             | 0.0              | 30.31                         | 30.00   | 30.138  | 4.3          | 4.0          | 187        | 28    | SSE | 13       | 168                | 35  |
| 22              | 56.2        | 41.8    | 49.0            | 50.3 | 46        | 86               | 16                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.27                         | 30.17   | 30.223  | 0.1          | 0.0          | 54         | 7     | W   | 3        | 69                 | 51  |
| 23              | 74.2        | 50.3    | 62.2*           | 61.8 | 56        | 83               | 3                   | 0                 | .....   | 0             | 0.00             | 0.0              | 30.18                         | 29.81   | 30.011  | 5.8          | 5.7          | 171        | 32    | S   | 18       | 172                | 87  |
| 24              | 63.0        | 38.1    | 50.5            | 49.6 | 44        | 82               | 14                  | 0                 | .....   | 0             | 0.17             | 0.0              | 30.10                         | 29.72   | 29.905  | 6.5          | 3.7          | 226        | 33    | SSE | 15       | 171                | 37  |
| 25              | 42.1        | 29.7    | 35.9            | 36.4 | 28        | 71               | 29                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.33                         | 30.10   | 30.267  | 1.2          | 1.1          | 349        | 12    | W   | 6        | 15                 | 77  |
| 26              | 44.9        | 33.4    | 39.2            | 40.2 | 36        | 86               | 26                  | 0                 | .....   | 0             | 0.26             | 0.0              | 30.31                         | 30.02   | 30.146  | 3.1          | 2.6          | 174        | 27    | SSE | 10       | 171                | 16  |
| 27              | 42.8        | 27.3    | 35.0            | 35.2 | 32        | 87               | 30                  | 0                 | .....   | 0             | 0.03             | T                | 30.23                         | 30.11   | 30.177  | 1.0          | 0.9          | 293        | 13    | W   | 9        | 269                | 65  |
| 28              | 46.9        | 29.8    | 38.4            | 38.6 | 36        | 91               | 26                  | 0                 | .....   | 0             | 0.06             | 0.0              | 30.15                         | 29.85   | 29.975  | 3.0          | 2.9          | 187        | 20    | SE  | 10       | 173                | 41  |
| 29              | 43.8        | 31.1    | 37.4            | 39.4 | 36        | 89               | 27                  | 0                 | .....   | 0             | 0.13             | 0.0              | 29.92                         | 29.80   | 29.849  | 1.2          | 0.4          | 305        | 18    | NNW | 7        | 344                | 21  |
| 30              | 37.6        | 19.2    | 28.4*           | 28.5 | 22        | 77               | 36                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.27                         | 29.85   | 30.015  | 1.7          | 1.6          | 340        | 15    | NNW | 7        | 343                | 86  |
| 31              | 41.6        | 17.1*   | 29.3            | 28.8 | 19        | 71               | 35                  | 0                 | .....   | 0             | 0.00             | 0.0              | 30.50                         | 30.24   | 30.388  | 2.6          | 2.6          | 179        | 20    | SSE | 10       | 168                | 115 |
| Sum             | Sum         | -----   | -----           | ---  | ----      | Ttl              | Ttl                 |                   |   | Total         | Total            | For the month:   |                               |         |   |              |              |            |       |     |          | ---                |     |
| 1733            | 1159        |         |                 |      |           | 563              | 0                   |                   | Number of Days  | 3.69          | T                | 30.50            | 29.32                         | 30.041  | 2.7   | 1.8          | 201          | 37         | SSE   | 18  | 172      |                    |     |
| Avg             | Avg         | Avg     | Mean            | Avg  | Avg       | ----             | ----                |                   | Precip  | Season Ttl    |                  | Date             | Date                          | -----   | ----  | ----         | ---          | Date       | Date  | Avg |          |                    |     |
| 55.9            | 37.4        | 46.6    | 46.7            | 41   | 81.3      | ----             | ----                |                   | ≥.01 inch   | 19            | 38.47            | T                | 31                            | 7       | -----   | ----         | ----         | ---        | 15    | 23  | 81       |                    |     |
| Number of Days  |             |         |                 |      |           | Season to Date   | Snow, Ice ≥1.0 inch | 0                 | Greatest in 24 Hours and Dates  |               |                  |                  |                               |         | Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date |              |              |            |       |     |          |                    |     |
| Max Temperature |             |         | Min Temperature |      |           | 821              | 499                 | Thunder           | 2   | Precipitation |                  |                  | Snow, Ice Plts                |         |   |              |              |            |       |     |          |                    |     |
| ≥ 90°F          | ≤ 32°F      | ≤ 32°F  | ≤ 0°F           | ---- | ----      | Heavy Fog        | 0                   | 0.83              | 15-16   | T             | 27               | 0                |                               |         |   |              |              | -          |       |     |          |                    |     |
| 0               | 0           | 9       | 0               | ---- | ----      | Clear            | 6                   | Partly Cloudy     |   |               | 9                | Cloudy           |                               |         | 16  |              |              |            |       |     |          |                    |     |

**NOTES:**

- Units: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
- Column 4A: value is (MAX+MIN) ÷ 2.
- Data in columns 4B, 5, 6, 15, 16, 23 are updated continuously, there by achieving a "true" mean.
- 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: Solar Radiation is measured in W/m² and is continuously averaged for 24 hours.

# OBSERVATIONS AT 3-HOUR INTERVALS

## October 2020: Westford

| Hour   | OCT 01   |          |               |             |           |          |           |       |        | OCT 02   |          |               |             |           |          |           |       |        | OCT 03   |          |               |             |           |          |           |       |      |
|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|------|
|        | 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 |
| 00     | 0        | 29.66    | 0.00          | 53          | 48        | 82       | 16        | 2     | 11     | 0        | 29.91    | 0.00          | 45          | 43        | 91       | 23        | 0     | 1      | 0        | 30.01    | 0.00          | 46          | 46        | 98       | 18        | 0     | 0    |
| 03     | 0        | 29.67    | 0.00          | 54          | 48        | 80       | 16        | 3     | 12     | 0        | 29.91    | 0.00          | 43          | 42        | 95       | 23        | 0     | 0      | 0        | 30.02    | 0.00          | 47          | 47        | 98       | 18        | 0     | 2    |
| 06     | 0        | 29.70    | 0.00          | 52          | 48        | 84       | 20        | 1     | 6      | 0        | 29.89    | 0.00          | 45          | 44        | 97       | 23        | 0     | 0      | 0        | 30.08    | 0.00          | 46          | 45        | 97       | 18        | 0     | 0    |
| 09     | 276      | 29.74    | 0.00          | 56          | 50        | 82       | 15        | 1     | 11     | 37       | 29.92    | 0.04          | 48          | 48        | 98       | 23        | 0     | 3      | 72       | 30.14    | 0.00          | 47          | 46        | 98       | 18        | 0     | 1    |
| 12     | 847      | 29.78    | 0.00          | 62          | 53        | 73       | 24        | 6     | 10     | 100      | 29.92    | 0.00          | 51          | 50        | 97       | 15        | 0     | 2      | 225      | 30.16    | 0.00          | 53          | 46        | 76       | 07        | 0     | 0    |
| 15     | 483      | 29.80    | 0.00          | 63          | 51        | 63       | 25        | 6     | 12     | 105      | 29.90    | 0.00          | 53          | 51        | 93       | 19        | 2     | 10     | 90       | 30.14    | 0.00          | 54          | 45        | 71       | 35        | 0     | 0    |
| 18     | 18       | 29.83    | 0.00          | 58          | 49        | 71       | 25        | 1     | 4      | 16       | 29.92    | 0.00          | 51          | 47        | 89       | 18        | 0     | 0      | 11       | 30.17    | 0.00          | 50          | 46        | 86       | 35        | 0     | 2    |
| 21     | 0        | 29.89    | 0.00          | 53          | 47        | 78       | 24        | 4     | 8      | 0        | 29.97    | 0.00          | 42          | 42        | 97       | 18        | 0     | 0      | 0        | 30.21    | 0.00          | 46          | 44        | 94       | 26        | 0     | 0    |
| OCT 04 |          |          |               |             |           |          |           |       | OCT 05 |          |          |               |             |           |          |           |       | OCT 06 |          |          |               |             |           |          |           |       |      |
| 00     | 0        | 30.23    | 0.00          | 43          | 42        | 96       | 25        | 0     | 0      | 0        | 30.11    | 0.00          | 42          | 41        | 97       | 17        | 0     | 0      | 0        | 30.08    | 0.00          | 50          | 48        | 95       | 17        | 0     | 0    |
| 03     | 0        | 30.23    | 0.00          | 43          | 42        | 97       | 18        | 0     | 4      | 0        | 30.08    | 0.00          | 43          | 42        | 96       | 17        | 0     | 0      | 0        | 30.07    | 0.00          | 47          | 46        | 96       | 17        | 1     | 3    |
| 06     | 0        | 30.24    | 0.00          | 44          | 43        | 97       | 18        | 0     | 3      | 0        | 30.08    | 0.00          | 45          | 44        | 97       | 17        | 0     | 0      | 0        | 30.06    | 0.00          | 46          | 45        | 96       | 17        | 1     | 3    |
| 09     | 63       | 30.26    | 0.00          | 44          | 43        | 97       | 20        | 2     | 8      | 116      | 30.10    | 0.00          | 52          | 45        | 77       | 17        | 2     | 7      | 251      | 30.02    | 0.00          | 51          | 50        | 96       | 17        | 0     | 7    |
| 12     | 265      | 30.23    | 0.00          | 54          | 45        | 72       | 12        | 1     | 8      | 297      | 30.10    | 0.00          | 60          | 48        | 65       | 18        | 2     | 9      | 439      | 29.95    | 0.00          | 61          | 51        | 68       | 17        | 7     | 21   |
| 15     | 483      | 30.16    | 0.00          | 60          | 44        | 56       | 20        | 3     | 8      | 227      | 30.06    | 0.00          | 62          | 48        | 60       | 18        | 5     | 10     | 186      | 29.87    | 0.00          | 62          | 49        | 62       | 16        | 7     | 19   |
| 18     | 21       | 30.14    | 0.00          | 54          | 45        | 71       | 17        | 0     | 1      | 14       | 30.07    | 0.00          | 57          | 49        | 75       | 17        | 2     | 6      | 14       | 29.81    | 0.00          | 59          | 48        | 68       | 20        | 2     | 12   |
| 21     | 0        | 30.12    | 0.00          | 42          | 39        | 91       | 17        | 0     | 0      | 0        | 30.09    | 0.00          | 50          | 48        | 92       | 17        | 0     | 0      | 0        | 29.78    | 0.00          | 58          | 48        | 70       | 18        | 7     | 17   |
| OCT 07 |          |          |               |             |           |          |           |       | OCT 08 |          |          |               |             |           |          |           |       | OCT 09 |          |          |               |             |           |          |           |       |      |
| 00     | 0        | 29.74    | 0.00          | 58          | 48        | 70       | 18        | 5     | 16     | 0        | 29.58    | 0.00          | 48          | 45        | 87       | 26        | 10    | 22     | 0        | 30.07    | 0.00          | 32          | 28        | 88       | 01        | 0     | 0    |
| 03     | 0        | 29.67    | 0.00          | 56          | 47        | 71       | 18        | 5     | 13     | 0        | 29.68    | 0.00          | 45          | 41        | 86       | 27        | 11    | 22     | 0        | 30.09    | 0.00          | 29          | 27        | 94       | 01        | 0     | 0    |
| 06     | 0        | 29.61    | 0.00          | 55          | 46        | 74       | 19        | 4     | 10     | 0        | 29.77    | 0.00          | 42          | 37        | 80       | 28        | 4     | 20     | 0        | 30.13    | 0.00          | 30          | 29        | 95       | 01        | 0     | 0    |
| 09     | 97       | 29.51    | 0.00          | 56          | 47        | 72       | 18        | 3     | 12     | 120      | 29.85    | 0.00          | 42          | 36        | 78       | 25        | 8     | 19     | 130      | 30.16    | 0.00          | 34          | 31        | 89       | 17        | 2     | 9    |
| 12     | 54       | 29.40    | 0.00          | 55          | 50        | 83       | 17        | 5     | 15     | 250      | 29.89    | 0.00          | 45          | 36        | 71       | 27        | 5     | 15     | 621      | 30.13    | 0.00          | 51          | 34        | 51       | 17        | 3     | 15   |
| 15     | 218      | 29.33    | 0.04          | 52          | 51        | 94       | 20        | 8     | 13     | 130      | 29.91    | 0.00          | 46          | 35        | 67       | 26        | 6     | 15     | 483      | 30.04    | 0.00          | 57          | 33        | 41       | 19        | 4     | 11   |
| 18     | 26       | 29.37    | 0.00          | 50          | 48        | 92       | 21        | 6     | 16     | 21       | 29.98    | 0.00          | 43          | 32        | 64       | 25        | 9     | 13     | 12       | 30.00    | 0.00          | 52          | 36        | 55       | 18        | 0     | 5    |
| 21     | 0        | 29.48    | 0.00          | 48          | 45        | 90       | 26        | 11    | 20     | 0        | 30.05    | 0.00          | 36          | 32        | 83       | 32        | 0     | 5      | 0        | 29.96    | 0.00          | 50          | 39        | 67       | 17        | 6     | 10   |
| OCT 10 |          |          |               |             |           |          |           |       | OCT 11 |          |          |               |             |           |          |           |       | OCT 12 |          |          |               |             |           |          |           |       |      |
| 00     | 0        | 29.85    | 0.00          | 52          | 44        | 72       | 17        | 7     | 17     | 0        | 29.89    | 0.00          | 50          | 43        | 79       | 28        | 6     | 14     | 0        | 30.28    | 0.00          | 33          | 29        | 84       | 04        | 0     | 3    |
| 03     | 0        | 29.79    | 0.00          | 56          | 46        | 69       | 17        | 6     | 20     | 0        | 29.99    | 0.00          | 45          | 39        | 79       | 29        | 4     | 14     | 0        | 30.27    | 0.00          | 29          | 27        | 93       | 04        | 0     | 0    |
| 06     | 0        | 29.73    | 0.00          | 57          | 45        | 65       | 18        | 8     | 20     | 0        | 30.10    | 0.00          | 41          | 35        | 81       | 33        | 3     | 9      | 0        | 30.26    | 0.00          | 28          | 27        | 95       | 04        | 0     | 0    |
| 09     | 172      | 29.73    | 0.00          | 58          | 47        | 65       | 18        | 10    | 22     | 53       | 30.19    | 0.00          | 38          | 28        | 66       | 35        | 2     | 12     | 46       | 30.28    | 0.00          | 38          | 33        | 81       | 15        | 0     | 8    |
| 12     | 432      | 29.67    | 0.00          | 67          | 51        | 57       | 19        | 7     | 21     | 613      | 30.25    | 0.00          | 48          | 32        | 54       | 28        | 2     | 9      | 606      | 30.25    | 0.00          | 55          | 35        | 47       | 16        | 6     | 15   |
| 15     | 33       | 29.59    | 0.00          | 67          | 55        | 65       | 17        | 9     | 21     | 413      | 30.23    | 0.00          | 51          | 31        | 47       | 01        | 0     | 5      | 415      | 30.19    | 0.00          | 59          | 37        | 44       | 12        | 5     | 9    |
| 18     | 0        | 29.59    | 0.00          | 62          | 59        | 90       | 20        | 3     | 9      | 11       | 30.26    | 0.00          | 44          | 31        | 62       | 28        | 2     | 8      | 9        | 30.14    | 0.00          | 53          | 37        | 55       | 16        | 0     | 2    |
| 21     | 0        | 29.73    | 0.00          | 57          | 54        | 91       | 27        | 2     | 7      | 0        | 30.28    | 0.00          | 35          | 30        | 82       | 00        | 0     | 3      | 0        | 30.11    | 0.00          | 48          | 36        | 64       | 19        | 1     | 6    |
| OCT 13 |          |          |               |             |           |          |           |       | OCT 14 |          |          |               |             |           |          |           |       | OCT 15 |          |          |               |             |           |          |           |       |      |
| 00     | 0        | 30.09    | 0.00          | 46          | 39        | 75       | 13        | 2     | 11     | 0        | 29.82    | 0.06          | 50          | 49        | 97       | 18        | 0     | 4      | 0        | 29.93    | 0.00          | 38          | 36        | 94       | 27        | 0     | 0    |
| 03     | 0        | 30.02    | 0.00          | 47          | 41        | 77       | 15        | 1     | 11     | 0        | 29.82    | 0.00          | 49          | 49        | 97       | 27        | 3     | 12     | 0        | 29.91    | 0.00          | 42          | 38        | 87       | 20        | 3     | 5    |
| 06     | 0        | 29.99    | 0.00          | 48          | 41        | 78       | 18        | 3     | 12     | 0        | 29.84    | 0.00          | 45          | 44        | 96       | 29        | 0     | 0      | 0        | 29.84    | 0.00          | 47          | 38        | 72       | 15        | 2     | 8    |
| 10     | 46       | 29.96    | 0.00          | 47          | 44        | 89       | 15        | 1     | 9      | 49       | 29.85    | 0.00          | 47          | 46        | 98       | 29        | 0     | 0      | 144      | 29.78    | 0.00          | 54          | 43        | 67       | 18        | 3     | 13   |
| 12     | 83       | 29.95    | 0.07          | 48          | 46        | 94       | 16        | 3     | 9      | 577      | 29.83    | 0.00          | 59          | 51        | 75       | 19        | 2     | 7      | 476      | 29.73    | 0.00          | 69          | 48        | 48       | 18        | 6     | 24   |
| 15     | 125      | 29.91    | 0.07          | 49          | 47        | 95       | 17        | 4     | 10     | 401      | 29.83    | 0.00          | 62          | 48        | 60       | 24        | 9     | 16     | 315      | 29.69    | 0.00          | 75          | 49        | 41       | 17        | 10    | 28   |
| 18     | 0        | 29.88    | 0.00          | 49          | 48        | 96       | 18        | 0     | 3      | 9        | 29.89    | 0.00          | 53          | 37        | 54       | 27        | 1     | 11     | 5        | 29.73    | 0.00          | 69          | 49        | 50       | 18        | 5     | 15   |
| 21     | 0        | 29.86    | 0.00          | 49          | 48        | 96       | 18        | 0     | 0      | 0        | 29.93    | 0.00          | 42          | 37        | 84       | 27        | 0     | 0      | 0        | 29.84    | 0.00          | 59          | 52        | 77       | 33        | 1     | 9    |
| OCT 16 |          |          |               |             |           |          |           |       | OCT 17 |          |          |               |             |           |          |           |       | OCT 18 |          |          |               |             |           |          |           |       |      |
| 00     | 0        | 29.91    | 0.00          | 54          | 51        | 89       | 36        | 0     | 2      | 0        | 30.15    | 0.00          | 42          | 41        | 97       | 14        | 0     | 0      | 0        | 30.35    | 0.00          | 34          | 32        | 92       | 24        | 1     | 2    |
| 03     | 0        | 29.92    | 0.06          | 50          | 49        | 95       | 34        | 0     | 0      | 0        | 30.16    | 0.00          | 41          | 41        | 97       | 14        | 0     | 0      | 0        | 30.38    | 0.00          | 35          | 32        | 88       | 18        | 0     | 5    |
| 06     | 0        | 29.97    | 0.06          | 48          | 47        | 96       | 27        | 0     | 4      | 0        | 30.14    | 0.00          | 41          | 40        | 97       | 05        | 2     | 8      | 0        | 30.40    | 0.00          | 37          | 32        | 81       | 18        | 2     | 5    |
| 09     | 16       | 30.02    | 0.00          | 47          | 46        | 96       | 28        | 0     | 0      | 44       | 30.16    | 0.00          | 41          | 40        | 97       | 29        | 2     | 8      | 42       | 30.43    | 0.00          | 42          | 34        | 74       | 17        | 1     | 5    |
| 12     | 32       | 30.05    | 0.06          | 48          | 47        | 96       | 29        | 0     | 2      | 592      | 30.21    | 0.00          | 50          | 41        | 73       | 26        | 8     | 11     | 506      | 30.39    | 0.00          | 56          | 35        | 44       | 18        | 6     | 19   |
| 15     | 32       | 30.06    | 0.00          | 48          | 47        | 95       | 28        | 1     | 3      | 336      | 30.20    | 0.00          | 54          | 35        | 48       | 27        | 3     | 9      | 162      | 30.31    | 0.00          | 56          | 35        | 45       | 15        | 3     | 13   |
| 18     | 0        | 30.08    | 0.04          | 43          | 42        | 95       | 22        | 0     | 0      | 7        | 30.24    | 0.00          | 46          | 37        | 70       | 26        | 0     | 0      | 0        | 30.29    | 0.00          | 52          | 36        | 55       | 17        | 5     | 10   |
| 21     | 0        | 30.13    | 0.00          | 43          | 42        | 97       | 14        | 0     | 0      | 0        | 30.29    | 0.00          | 37          | 33        | 88       | 24        | 1     | 4      | 0        | 30.26    | 0.00          | 51          | 36        | 57       | 17        | 1     | 10   |

## MAXIMUM SHORT DURATION PRECIPITATION

| Time Period (minutes) | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation         | 0.13 | 0.18 | 0.22 | 0.24 | 0.26 | 0.29 | 0.30 | 0.30 | 0.30 | 0.30 | 0.43 | 0.53 |
| Ended: Date           | 07   | 07   | 07   | 07   | 07   | 07   | 07   | 07   | 07   | 07   | 07   | 07   |
| Ended: Time           | 1642 | 1646 | 1652 | 1657 | 1703 | 1719 | 1723 | 1723 | 1723 | 1723 | 1649 | 1709 |

The precipitation amounts may occur at any time during the month. The time indicated is the ending time of the interval. Date and time are not entered for trace amounts.

# OBSERVATIONS AT 3-HOUR INTERVALS

## October 2020: Westford

| Hour   | Wind      |       |      | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Wind      |       |      | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Wind      |       |      |    |    |    |    |    |    |
|--------|-----------|-------|------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|------|----|----|----|----|----|----|
|        | Direction | Speed | Gust |          |          |               |             |           |          | Direction | Speed | Gust |          |          |               |             |           |          | Direction | Speed | Gust |    |    |    |    |    |    |
| OCT 19 |           |       |      |          |          |               |             |           | OCT 20   |           |       |      |          |          |               |             |           | OCT 21   |           |       |      |    |    |    |    |    |    |
| 00     | 0         | 30.25 | 0.00 | 51       | 39       | 62            | 12          | 1         | 11       | 0         | 30.16 | 0.00 | 52       | 51       | 97            | 17          | 0         | 6        | 0         | 30.31 | 0.00 | 44 | 43 | 96 | 01 | 0  | 0  |
| 03     | 0         | 30.22 | 0.00 | 52       | 42       | 70            | 17          | 8         | 21       | 0         | 30.08 | 0.00 | 54       | 51       | 90            | 17          | 7         | 15       | 0         | 30.25 | 0.00 | 45 | 44 | 96 | 05 | 0  | 0  |
| 06     | 0         | 30.23 | 0.00 | 51       | 44       | 77            | 16          | 7         | 21       | 0         | 30.04 | 0.00 | 55       | 52       | 89            | 16          | 8         | 29       | 0         | 30.18 | 0.00 | 46 | 45 | 96 | 05 | 0  | 0  |
| 09     | 47        | 30.26 | 0.00 | 52       | 45       | 78            | 17          | 8         | 17       | 28        | 30.08 | 0.00 | 55       | 53       | 93            | 18          | 7         | 20       | 188       | 30.14 | 0.00 | 51 | 50 | 96 | 18 | 5  | 10 |
| 12     | 107       | 30.24 | 0.00 | 54       | 48       | 78            | 15          | 4         | 13       | 54        | 30.17 | 0.06 | 52       | 50       | 94            | 26          | 6         | 11       | 178       | 30.12 | 0.00 | 56 | 54 | 93 | 17 | 7  | 14 |
| 15     | 33        | 30.22 | 0.00 | 52       | 50       | 91            | 16          | 3         | 8        | 53        | 30.21 | 0.00 | 48       | 46       | 95            | 01          | 0         | 5        | 84        | 30.02 | 0.00 | 61 | 57 | 87 | 17 | 10 | 24 |
| 18     | 0         | 30.23 | 0.07 | 51       | 50       | 96            | 18          | 1         | 7        | 0         | 30.28 | 0.00 | 45       | 44       | 95            | 00          | 3         | 8        | 0         | 30.02 | 0.00 | 64 | 60 | 85 | 18 | 10 | 20 |
| 21     | 0         | 30.21 | 0.00 | 51       | 50       | 97            | 17          | 1         | 3        | 0         | 30.31 | 0.00 | 44       | 43       | 96            | 00          | 0         | 3        | 0         | 30.12 | 0.00 | 59 | 56 | 89 | 22 | 4  | 14 |
| OCT 22 |           |       |      |          |          |               |             |           | OCT 23   |           |       |      |          |          |               |             |           | OCT 24   |           |       |      |    |    |    |    |    |    |
| 00     | 0         | 30.18 | 0.00 | 53       | 47       | 82            | 26          | 1         | 7        | 0         | 30.17 | 0.00 | 51       | 49       | 93            | 08          | 0         | 0        | 0         | 29.81 | 0.00 | 63 | 57 | 81 | 16 | 11 | 25 |
| 03     | 0         | 30.20 | 0.00 | 47       | 45       | 93            | 26          | 0         | 0        | 0         | 30.12 | 0.00 | 51       | 48       | 91            | 10          | 1         | 4        | 0         | 29.78 | 0.00 | 61 | 56 | 83 | 16 | 6  | 23 |
| 06     | 0         | 30.24 | 0.00 | 43       | 42       | 95            | 26          | 0         | 0        | 0         | 30.09 | 0.00 | 54       | 52       | 92            | 16          | 6         | 15       | 0         | 29.73 | 0.00 | 61 | 56 | 84 | 17 | 10 | 23 |
| 09     | 67        | 30.25 | 0.00 | 47       | 46       | 97            | 32          | 0         | 3        | 100       | 30.11 | 0.00 | 62       | 59       | 89            | 17          | 9         | 19       | 25        | 29.82 | 0.08 | 54 | 51 | 92 | 27 | 7  | 15 |
| 12     | 243       | 30.25 | 0.00 | 55       | 45       | 69            | 07          | 0         | 3        | 193       | 30.05 | 0.00 | 67       | 60       | 78            | 17          | 10        | 25       | 120       | 29.95 | 0.00 | 42 | 40 | 93 | 28 | 6  | 24 |
| 15     | 120       | 30.22 | 0.00 | 56       | 47       | 73            | 08          | 0         | 2        | 288       | 29.95 | 0.00 | 73       | 61       | 66            | 17          | 14        | 27       | 116       | 29.96 | 0.00 | 44 | 38 | 78 | 30 | 2  | 14 |
| 18     | 0         | 30.22 | 0.00 | 54       | 49       | 83            | 08          | 0         | 0        | 0         | 29.90 | 0.00 | 67       | 58       | 75            | 17          | 2         | 9        | 0         | 30.00 | 0.00 | 43 | 35 | 75 | 28 | 3  | 9  |
| 21     | 0         | 30.23 | 0.00 | 52       | 48       | 85            | 08          | 0         | 1        | 0         | 29.88 | 0.00 | 61       | 57       | 86            | 17          | 2         | 7        | 0         | 30.07 | 0.00 | 41 | 33 | 73 | 26 | 7  | 13 |
| OCT 25 |           |       |      |          |          |               |             |           | OCT 26   |           |       |      |          |          |               |             |           | OCT 27   |           |       |      |    |    |    |    |    |    |
| 00     | 0         | 30.10 | 0.00 | 38       | 32       | 80            | 31          | 3         | 8        | 0         | 30.31 | 0.00 | 33       | 24       | 67            | 00          | 0         | 3        | 0         | 30.12 | 0.00 | 40 | 38 | 96 | 34 | 1  | 9  |
| 03     | 0         | 30.16 | 0.00 | 36       | 31       | 82            | 33          | 2         | 8        | 0         | 30.25 | 0.00 | 35       | 26       | 71            | 05          | 0         | 1        | 0         | 30.14 | 0.00 | 37 | 36 | 96 | 29 | 0  | 3  |
| 06     | 0         | 30.22 | 0.00 | 35       | 29       | 81            | 34          | 0         | 4        | 0         | 30.24 | 0.00 | 40       | 33       | 76            | 14          | 3         | 12       | 0         | 30.18 | 0.00 | 35 | 34 | 96 | 29 | 4  | 11 |
| 09     | 54        | 30.28 | 0.00 | 35       | 30       | 80            | 00          | 0         | 7        | 28        | 30.20 | 0.00 | 39       | 35       | 87            | 16          | 5         | 14       | 21        | 30.22 | 0.00 | 35 | 33 | 94 | 29 | 2  | 7  |
| 12     | 204       | 30.31 | 0.00 | 41       | 28       | 61            | 34          | 3         | 9        | 70        | 30.12 | 0.00 | 42       | 39       | 89            | 17          | 4         | 11       | 121       | 30.21 | 0.00 | 38 | 34 | 83 | 27 | 4  | 10 |
| 15     | 188       | 30.31 | 0.00 | 41       | 27       | 56            | 35          | 2         | 8        | 21        | 30.06 | 0.00 | 42       | 41       | 94            | 18          | 5         | 9        | 104       | 30.18 | 0.00 | 39 | 29 | 66 | 31 | 1  | 5  |
| 18     | 0         | 30.33 | 0.00 | 37       | 27       | 68            | 34          | 0         | 0        | 0         | 30.03 | 0.00 | 43       | 42       | 96            | 17          | 3         | 8        | 0         | 30.21 | 0.00 | 34 | 29 | 80 | 35 | 0  | 9  |
| 21     | 0         | 30.33 | 0.00 | 32       | 24       | 72            | 00          | 1         | 3        | 0         | 30.04 | 0.00 | 45       | 44       | 97            | 18          | 4         | 14       | 0         | 30.16 | 0.00 | 28 | 26 | 92 | 26 | 0  | 0  |
| OCT 28 |           |       |      |          |          |               |             |           | OCT 29   |           |       |      |          |          |               |             |           | OCT 30   |           |       |      |    |    |    |    |    |    |
| 00     | 0         | 30.14 | 0.00 | 30       | 29       | 95            | 26          | 0         | 0        | 0         | 29.91 | 0.00 | 43       | 38       | 82            | 22          | 5         | 10       | 0         | 29.86 | 0.00 | 31 | 27 | 84 | 00 | 4  | 12 |
| 03     | 0         | 30.12 | 0.00 | 30       | 28       | 92            | 34          | 0         | 2        | 0         | 29.88 | 0.00 | 42       | 37       | 83            | 19          | 2         | 7        | 0         | 29.90 | 0.00 | 29 | 24 | 83 | 34 | 1  | 9  |
| 06     | 0         | 30.06 | 0.00 | 31       | 30       | 94            | 03          | 0         | 0        | 0         | 29.87 | 0.00 | 40       | 37       | 90            | 23          | 1         | 4        | 0         | 29.90 | 0.00 | 26 | 21 | 82 | 00 | 2  | 10 |
| 09     | 26        | 30.02 | 0.00 | 34       | 33       | 95            | 14          | 2         | 9        | 60        | 29.87 | 0.00 | 41       | 39       | 91            | 22          | 0         | 0        | 84        | 29.96 | 0.00 | 26 | 22 | 82 | 33 | 2  | 9  |
| 12     | 246       | 29.95 | 0.00 | 43       | 41       | 92            | 18          | 5         | 11       | 121       | 29.85 | 0.00 | 43       | 38       | 83            | 34          | 0         | 2        | 269       | 30.00 | 0.00 | 33 | 23 | 68 | 32 | 2  | 9  |
| 15     | 206       | 29.89 | 0.00 | 46       | 43       | 91            | 19          | 3         | 12       | 46        | 29.81 | 0.07 | 41       | 39       | 93            | 34          | 0         | 0        | 209       | 30.03 | 0.00 | 36 | 22 | 58 | 27 | 1  | 9  |
| 18     | 0         | 29.86 | 0.00 | 45       | 43       | 91            | 18          | 4         | 19       | 0         | 29.82 | 0.00 | 37       | 36       | 95            | 01          | 0         | 0        | 0         | 30.11 | 0.00 | 29 | 22 | 74 | 28 | 0  | 0  |
| 21     | 0         | 29.89 | 0.00 | 43       | 41       | 94            | 22          | 3         | 8        | 0         | 29.82 | 0.00 | 35       | 33       | 92            | 34          | 1         | 10       | 0         | 30.19 | 0.00 | 29 | 22 | 86 | 29 | 0  | 0  |
| OCT 31 |           |       |      |          |          |               |             |           |          |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 00     | 0         | 30.27 | 0.00 | 20       | 18       | 92            | 29          | 0         | 0        |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 03     | 0         | 30.35 | 0.00 | 19       | 17       | 92            | 29          | 0         | 0        |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 06     | 0         | 30.41 | 0.00 | 19       | 18       | 93            | 28          | 0         | 2        |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 09     | 25        | 30.48 | 0.00 | 22       | 20       | 94            | 18          | 3         | 6        |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 12     | 512       | 30.49 | 0.00 | 37       | 25       | 62            | 16          | 3         | 9        |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 15     | 162       | 30.43 | 0.00 | 41       | 19       | 40            | 21          | 5         | 11       |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 18     | 0         | 30.37 | 0.00 | 34       | 18       | 51            | 17          | 1         | 6        |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |
| 21     | 0         | 30.30 | 0.00 | 32       | 21       | 63            | 17          | 4         | 14       |           |       |      |          |          |               |             |           |          |           |       |      |    |    |    |    |    |    |

### WEATHER NOTES

NOTES:  
 Units: 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 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 |
| 00   | 0        | 30.040   | 44          | 40        | 87       | 1.9        | 22             | 1.0   |
| 03   | 0        | 30.037   | 43          | 40        | 88       | 2.0        | 20             | 1.3   |
| 06   | 0        | 30.040   | 43          | 39        | 88       | 2.3        | 18             | 1.4   |
| 09   | 82       | 30.057   | 45          | 41        | 87       | 2.8        | 20             | 1.9   |
| 12   | 305      | 30.052   | 51          | 43        | 74       | 4.0        | 20             | 2.7   |
| 15   | 202      | 30.017   | 53          | 42        | 69       | 4.1        | 20             | 3.1   |
| 18   | 6        | 30.025   | 49          | 42        | 76       | 2.1        | 21             | 1.4   |
| 21   | 0        | 30.050   | 45          | 40        | 85       | 1.9        | 22             | 1.4   |

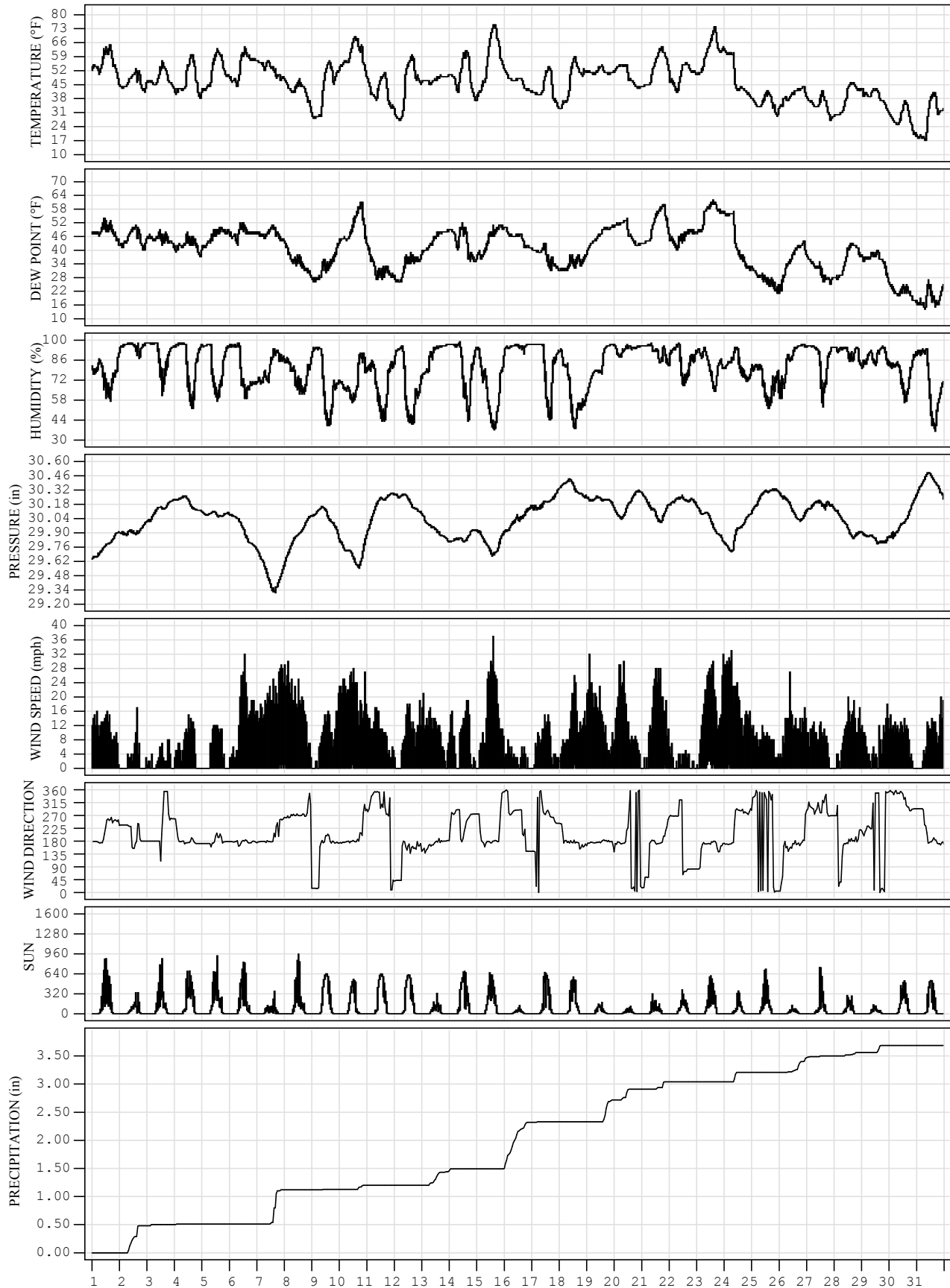
## HOURLY PRECIPITATION (Water Equivalent) October 2020: Westford

| 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   |                     |      |      |      |      |      |      | 0.04 | 0.08 | 0.05 | 0.05 | 0.03 | 0.03                | 0.01 |      | 0.18 | 0.01 |      |      |      |      |      |      | 02   |      |
| 03   |                     |      |      | 0.02 |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 03   |      |
| 04   |                     | 0.01 |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 04   |      |
| 05   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 05   |      |
| 06   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 06   |      |
| 07   |                     |      |      |      |      |      |      |      |      |      |      | 0.01 | 0.02                |      | 0.26 |      | 0.25 | 0.05 |      |      | 0.02 |      |      | 07   |      |
| 08   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 08   |      |
| 09   |                     |      |      |      |      |      |      |      | 0.01 |      |      |      |                     |      |      |      |      |      |      | 0.02 | 0.01 |      |      | 09   |      |
| 10   |                     |      |      |      |      |      |      |      |      | 0.01 |      |      |                     |      |      |      | 0.03 | 0.01 |      | 0.02 | 0.01 |      |      | 10   |      |
| 11   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 11   |      |
| 12   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 12   |      |
| 13   |                     |      |      |      |      |      | 0.03 | 0.01 |      | 0.01 | 0.04 | 0.02 | 0.04                | 0.04 | 0.03 | 0.01 |      |      |      | 0.01 |      |      | 0.02 | 13   |      |
| 14   | 0.03                |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 14   |      |
| 15   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      | 0.01 | 15   |      |
| 16   | 0.08                | 0.06 | 0.09 | 0.02 | 0.03 | 0.04 | 0.07 | 0.07 | 0.04 | 0.04 | 0.06 | 0.06 | 0.01                | 0.02 | 0.01 | 0.01 | 0.01 | 0.05 | 0.04 | 0.01 |      |      |      | 16   |      |
| 17   |                     |      |      |      | 0.01 |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 17   |      |
| 18   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 18   |      |
| 19   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      | 0.04 | 0.07 | 0.13 | 0.08 | 0.04 |      | 0.01 | 0.02 | 19   |      |
| 20   |                     |      |      |      |      |      | 0.02 | 0.02 |      |      | 0.09 | 0.05 | 0.01                |      |      |      |      |      |      |      |      |      |      | 20   |      |
| 21   |                     |      |      |      |      |      |      |      |      |      |      |      | 0.01                | 0.02 |      |      |      |      | 0.09 | 0.01 |      |      |      | 21   |      |
| 22   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 22   |      |
| 23   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 23   |      |
| 24   |                     |      |      |      |      |      |      |      | 0.05 | 0.09 | 0.03 |      |                     |      |      |      |      |      |      |      |      |      |      | 24   |      |
| 25   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      | 25   |      |
| 26   |                     |      |      |      |      |      |      | 0.01 |      |      |      | 0.01 | 0.01                | 0.01 | 0.01 |      | 0.07 | 0.05 | 0.02 |      |      | 0.01 | 0.05 | 0.01 | 26   |
| 27   | 0.01                |      | 0.01 |      |      |      |      |      |      |      |      | 0.01 | 0.01                | 0.01 | 0.01 |      | 0.07 | 0.05 | 0.02 |      |      | 0.01 | 0.05 | 0.01 | 27   |
| 28   |                     |      |      |      |      |      |      |      |      | 0.02 |      |      |                     |      |      | 0.01 |      |      |      | 0.02 |      |      |      |      | 28   |
| 29   |                     |      |      |      |      |      |      |      |      |      |      |      |                     | 0.02 | 0.04 | 0.06 | 0.01 |      |      |      |      |      |      |      | 29   |
| 30   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 30   |
| 31   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 31   |
| Sum  | 0.12                | 0.07 | 0.10 | 0.04 | 0.04 | 0.04 | 0.12 | 0.15 | 0.17 | 0.22 | 0.27 | 0.19 | 0.13                | 0.12 | 0.40 | 0.33 | 0.52 | 0.24 | 0.21 | 0.04 | 0.05 | 0.03 | 0.05 | 0.04 | Sum  |

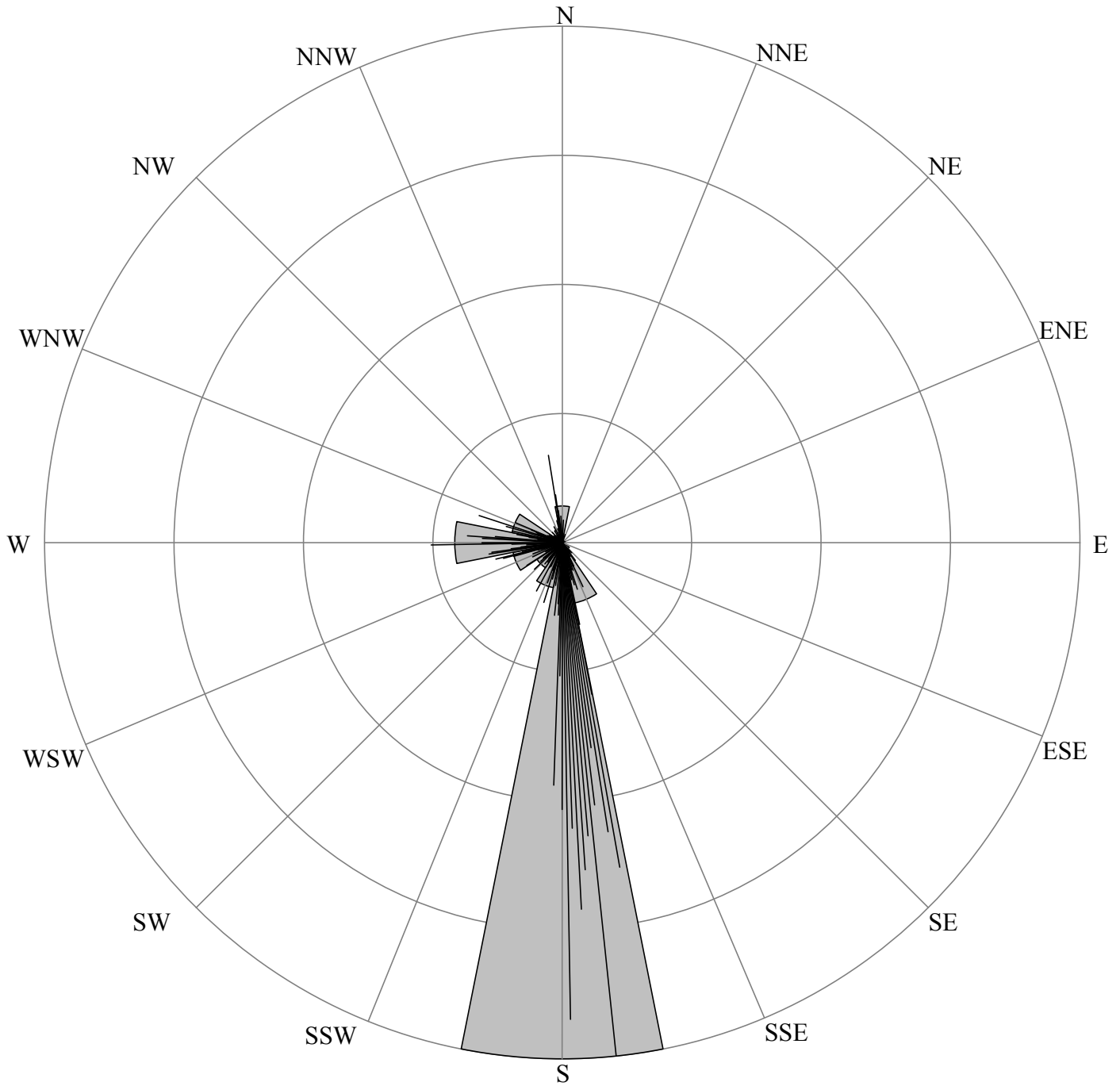
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

# HOUR-BY-HOUR DATA

## October 2020: Westford



Wind Rose: October 2020  
Westford



Maximum direction of wind: 130.2 miles from 174°  
Maximum sector of wind: 1130.2 miles from S  
2045.4 total miles of wind