

# LOCAL CLIMATOLOGICAL DATA

## Monthly Summary

### June 2021

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                 | 10  | 11            | 12               | 13               | 14                            | 15  | 16     | 17           | 18           | 19         | 20    | 21  | 22       | 23                 |     |
| 1               | 73.4        | 46.4    | 59.9            | 57.7 | 50        | 78               | 5                   | 0                 | .....   | 0             | 0.02             | 0.0              | 30.18                         | 30.08   | 30.123 | 1.7          | 1.7          | 192        | 16    | WSW | 8        | 184                | 208 |
| 2               | 78.7        | 51.4    | 65.0            | 66.0 | 51        | 61               | 0                   | 0                 | .....   | 0             | 0.00             | 0.0              | 30.17                         | 30.03   | 30.102 | 1.9          | 1.9          | 186        | 18    | SW  | 8        | 165                | 282 |
| 3               | 69.5        | 58.8    | 64.1            | 63.2 | 59        | 87               | 0                   | 0                 | .....   | 0             | 0.17             | 0.0              | 30.04                         | 29.76   | 29.885 | 2.3          | 2.2          | 182        | 21    | S   | 8        | 169                | 98  |
| 4               | 80.4        | 60.1    | 70.3            | 69.3 | 62        | 78               | 0                   | 5                 | .....   | 0             | 0.00             | 0.0              | 29.82                         | 29.74   | 29.780 | 1.5          | 1.5          | 216        | 16    | SSE | 7        | 260                | 277 |
| 5               | 81.7        | 59.9    | 70.8            | 69.9 | 64        | 81               | 0                   | 6                 | ..3.....  | 0             | 0.10             | 0.0              | 29.84                         | 29.68   | 29.738 | 2.0          | 2.0          | 189        | 20    | SSE | 10       | 171                | 186 |
| 6               | 89.5        | 62.1    | 75.8            | 76.0 | 65        | 72               | 0                   | 11                | .....   | 0             | 0.00             | 0.0              | 29.92                         | 29.83   | 29.870 | 1.8          | 1.7          | 202        | 17    | SSE | 7        | 233                | 281 |
| 7               | 90.5        | 63.9    | 77.2            | 78.2 | 66        | 68               | 0                   | 13                | .....   | 0             | 0.00             | 0.0              | 29.96                         | 29.85   | 29.912 | 1.7          | 1.6          | 207        | 18    | S   | 8        | 232                | 291 |
| 8               | 82.4        | 69.5    | 76.0            | 75.0 | 69        | 82               | 0                   | 11                | .....   | 0             | T                | 0.0              | 29.95                         | 29.88   | 29.916 | 1.8          | 1.7          | 203        | 16    | WSW | 8        | 240                | 164 |
| 9               | 82.0        | 55.2    | 68.6            | 72.1 | 62        | 73               | 0                   | 4                 | ..3.....  | 0             | 0.53             | 0.0              | 30.01                         | 29.88   | 29.949 | 0.9          | 0.5          | 277        | 15    | W   | 8        | 279                | 301 |
| 10              | 71.8        | 51.2    | 61.5            | 60.8 | 46        | 61               | 3                   | 0                 | .....   | 0             | 0.00             | 0.0              | 30.10                         | 30.01   | 30.051 | 0.8          | 0.7          | 317        | 13    | NNW | 7        | 267                | 294 |
| 11              | 68.5        | 50.3    | 59.4            | 58.9 | 52        | 77               | 5                   | 0                 | .....   | 0             | 0.00             | 0.0              | 30.03                         | 29.85   | 29.933 | 0.6          | 0.6          | 180        | 16    | S   | 6        | 177                | 151 |
| 12              | 77.7        | 46.0    | 61.8            | 63.0 | 52        | 71               | 3                   | 0                 | .....   | 0             | 0.00             | 0.0              | 29.87                         | 29.77   | 29.817 | 0.5          | 0.4          | 265        | 12    | SW  | 7        | 271                | 300 |
| 13              | 82.8        | 52.3    | 67.6            | 67.2 | 53        | 63               | 0                   | 3                 | .....   | 0             | 0.00             | 0.0              | 29.84                         | 29.73   | 29.793 | 0.8          | 0.5          | 212        | 16    | SSE | 6        | 274                | 283 |
| 14              | 71.7        | 58.9    | 65.3            | 63.8 | 60        | 87               | 0                   | 1                 | .....   | 0             | 0.47             | 0.0              | 29.75                         | 29.68   | 29.717 | 1.8          | 1.8          | 177        | 19    | SSE | 8        | 190                | 158 |
| 15              | 76.2        | 52.8    | 64.5            | 62.9 | 58        | 86               | 0                   | 0                 | .....   | 0             | 0.14             | 0.0              | 29.76                         | 29.63   | 29.692 | 1.3          | 1.1          | 238        | 18    | WSW | 8        | 273                | 247 |
| 16              | 68.1        | 45.7    | 56.9*           | 57.4 | 48        | 74               | 8                   | 0                 | .....   | 0             | 0.00             | 0.0              | 29.84                         | 29.74   | 29.796 | 1.8          | 1.7          | 256        | 20    | WNW | 10       | 279                | 283 |
| 17              | 74.7        | 45.3    | 60.0            | 60.5 | 47        | 64               | 5                   | 0                 | .....   | 0             | 0.00             | 0.0              | 29.91                         | 29.83   | 29.867 | 1.6          | 1.4          | 245        | 17    | W   | 9        | 258                | 310 |
| 18              | 74.2        | 49.7    | 61.9            | 63.2 | 53        | 71               | 3                   | 0                 | .....   | 0             | 0.06             | 0.0              | 29.92                         | 29.65   | 29.822 | 1.3          | 1.3          | 178        | 19    | SSE | 7        | 184                | 186 |
| 19              | 80.3        | 58.8    | 69.6            | 67.4 | 61        | 82               | 0                   | 5                 | ..3.....  | 0             | 0.81             | 0.0              | 29.65                         | 29.58   | 29.616 | 1.9          | 1.6          | 212        | 20    | SSE | 10       | 232                | 215 |
| 20              | 82.8        | 55.5    | 69.2            | 68.6 | 60        | 76               | 0                   | 5                 | .....   | 0             | 0.00             | 0.0              | 29.74                         | 29.65   | 29.691 | 1.0          | 0.9          | 235        | 12    | WSW | 6        | 253                | 283 |
| 21              | 87.8        | 59.1    | 73.5            | 72.1 | 67        | 86               | 0                   | 9                 | ..3.....  | 0             | 0.85             | 0.0              | 29.68                         | 29.39   | 29.520 | 2.4          | 2.4          | 180        | 26    | S   | 12       | 185                | 216 |
| 22              | 67.6        | 50.3    | 58.9            | 59.5 | 56        | 87               | 6                   | 0                 | .....   | 0             | T                | 0.0              | 29.87                         | 29.48   | 29.679 | 1.2          | 0.8          | 256        | 16    | W   | 7        | 274                | 109 |
| 23              | 70.9        | 43.5*   | 57.2            | 56.3 | 48        | 75               | 7                   | 0                 | .....   | 0             | 0.00             | 0.0              | 30.23                         | 29.87   | 30.070 | 0.9          | 0.9          | 249        | 15    | WSW | 7        | 247                | 300 |
| 24              | 77.9        | 44.4    | 61.2            | 63.1 | 51        | 67               | 4                   | 0                 | .....   | 0             | 0.00             | 0.0              | 30.32                         | 30.20   | 30.257 | 2.1          | 2.1          | 187        | 22    | SSE | 11       | 169                | 309 |
| 25              | 79.1        | 56.9    | 68.0            | 68.5 | 54        | 61               | 0                   | 3                 | .....   | 0             | 0.00             | 0.0              | 30.23                         | 30.08   | 30.163 | 2.1          | 2.1          | 180        | 18    | S   | 9        | 173                | 245 |
| 26              | 74.9        | 65.6    | 70.3            | 70.1 | 64        | 81               | 0                   | 6                 | .....   | 0             | 0.14             | 0.0              | 30.10                         | 29.95   | 30.021 | 3.2          | 3.2          | 179        | 24    | SSE | 10       | 167                | 89  |
| 27              | 88.4        | 71.2    | 79.8            | 79.2 | 70        | 75               | 0                   | 15                | .....   | 0             | 0.00             | 0.0              | 29.96                         | 29.89   | 29.932 | 3.7          | 3.6          | 187        | 23    | SSE | 10       | 185                | 244 |
| 28              | 89.7        | 71.7    | 80.7*           | 80.2 | 73        | 79               | 0                   | 16                | .....   | 0             | 0.18             | 0.0              | 30.05                         | 29.95   | 30.002 | 1.8          | 1.7          | 217        | 14    | SW  | 6        | 180                | 229 |
| 29              | 89.1        | 68.8    | 79.0            | 78.0 | 70        | 77               | 0                   | 14                | .....   | 0             | 0.00             | 0.0              | 30.10                         | 29.97   | 30.042 | 1.5          | 1.5          | 241        | 12    | WSW | 7        | 268                | 260 |
| 30              | 82.1        | 65.0    | 73.5            | 73.6 | 70        | 89               | 0                   | 9                 | ..3.....  | 0             | 0.08             | 0.0              | 29.97                         | 29.73   | 29.838 | 1.8          | 1.6          | 202        | 19    | WSW | 9        | 272                | 130 |
| Sum             | Sum         | -----   | -----           | ---  | ----      | Ttl              | Ttl                 | Number of Days    |   | Total         | Total            | For the month:   |                               |   |        |              |              |            |       |     |          | ---                |     |
| 2364            | 1690        |         |                 |      |           | 49               | 136                 |                   |   | 3.55          | 0.0              | 30.32            | 29.39                         | 29.886  | 1.7    | 1.4          | 204          | 26         | S     | 12  | 185      |                    |     |
| Avg             | Avg         | Avg     | Mean            | Avg  | Avg       | ----             | ----                | Precip            |   | Season Ttl    | Date             | Date             | -----                         | ----  | ----   | ---          | Date         | Date       | Avg   |     |          |                    |     |
| 78.8            | 56.3        | 67.6    | 67.4            | 59   | 75.6      | ----             | ----                | ≥.01 inch         | 12  | 15.32         | 76.7             | 24               | 21                            | -----   | ----   | ----         | 21           | 21         | 231   |     |          |                    |     |
| 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 |      |           | 7297             | 171                 | Thunder           | 5   | Precipitation |                  |                  | Snow, Ice Plts                |   |        |              |              |            |       |     |          |                    |     |
| ≥ 90°F          | ≤ 32°F      | ≤ 32°F  | ≤ 0°F           | ---- | ----      | Heavy Fog        | 0                   | 0.87              | 18-19   | 0.0           | -                | 0                |                               |   | -      |              |              |            |       |     |          |                    |     |
| 3               | 0           | 0       | 0               | ---- | ----      | Clear            | 10                  | Partly Cloudy     | 14  | Cloudy        | 6                |                  |                               |   |        |              |              |            |       |     |          |                    |     |

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.



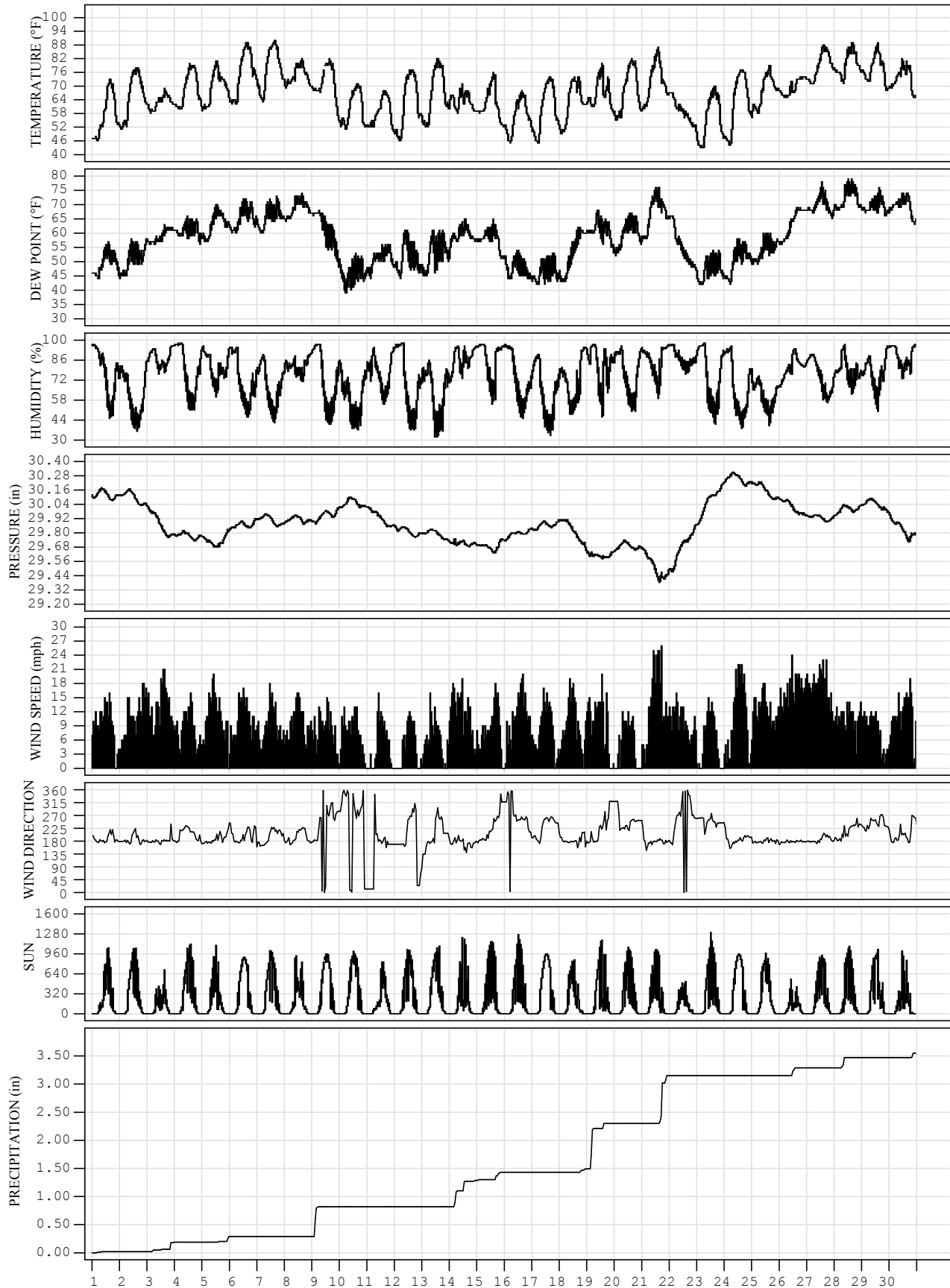


## HOURLY PRECIPITATION (Water Equivalent) June 2021: Westford

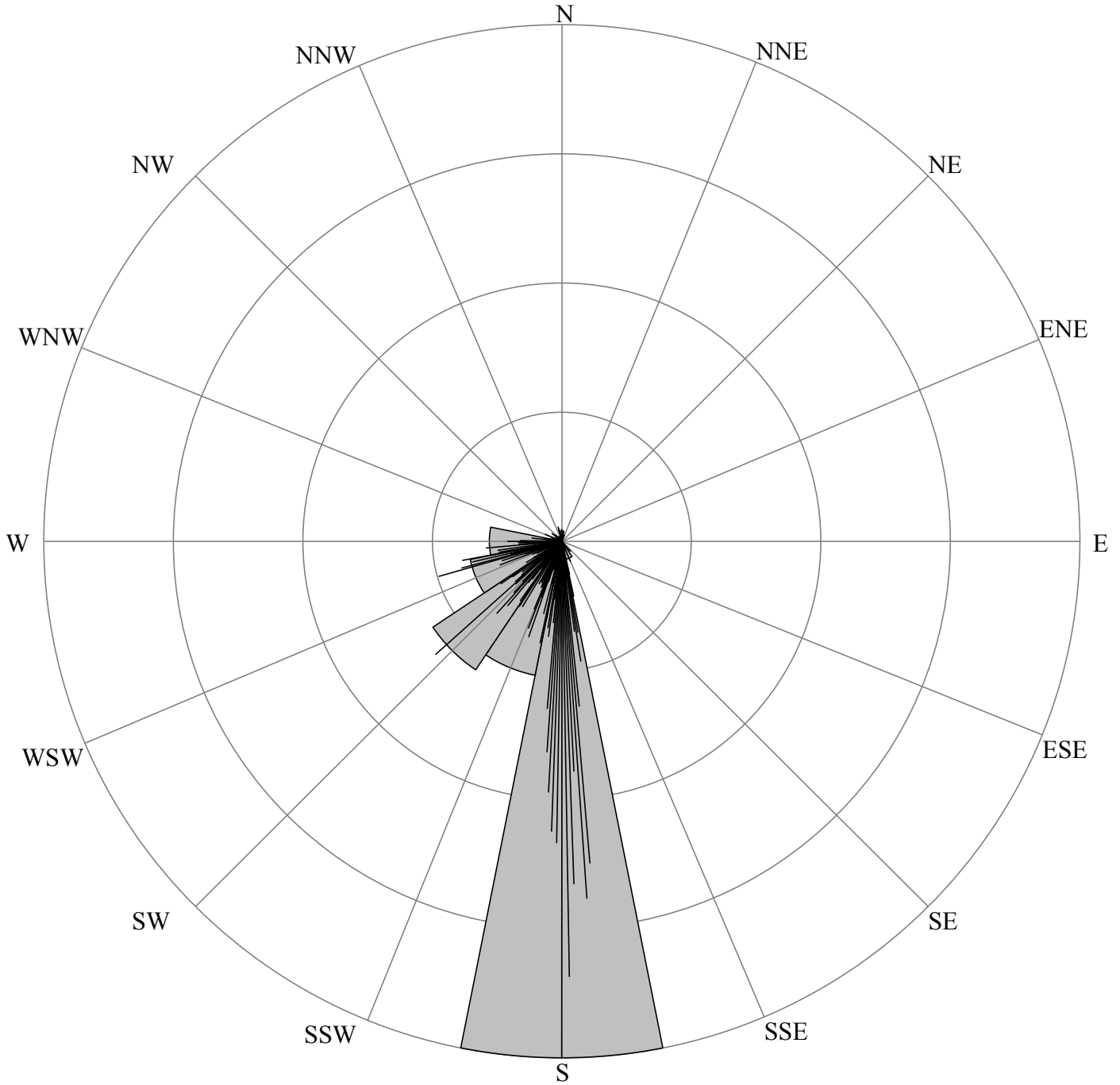
| Date | A.M. Hour Ending at |      |      |      |      |      |      |      |      |      |      |      | P.M. Hour Ending at |      |      |      |      |      |      |      |      |      |      |      | Date |
|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|      | 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   |                     |      |      |      | 0.01 |      |      |      |      |      |      | 0.01 |                     |      |      |      |      |      |      |      |      |      |      |      | 01   |
| 02   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 02   |
| 03   |                     |      |      |      | 0.01 | 0.02 |      |      |      |      |      |      | 0.01                |      |      |      |      |      |      |      | 0.12 |      |      | 0.01 | 03   |
| 04   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 04   |
| 05   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      | 0.01 |      |      |      |      |      |      | 0.01 | 0.06 | 0.02 | 05   |
| 06   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 06   |
| 07   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 07   |
| 08   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 08   |
| 09   |                     |      | 0.32 | 0.18 | 0.02 | 0.01 |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 09   |
| 10   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 10   |
| 11   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 11   |
| 12   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 12   |
| 13   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 13   |
| 14   |                     |      |      |      | 0.07 | 0.19 | 0.02 |      |      |      |      |      | 0.16                | 0.01 |      |      |      |      |      |      |      |      | 0.01 | 0.01 | 14   |
| 15   | 0.01                |      |      |      |      |      |      |      |      |      |      |      |                     |      |      | 0.07 |      | 0.04 | 0.01 | 0.01 |      |      |      |      | 15   |
| 16   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 16   |
| 17   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 17   |
| 18   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      | 0.03 | 0.01 |      | 0.01 | 0.01 |      | 18   |
| 19   |                     |      | 0.24 | 0.46 | 0.02 |      |      |      |      |      |      |      |                     |      | 0.09 |      |      |      |      |      |      |      |      |      | 19   |
| 20   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 20   |
| 21   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      | 0.03 | 0.09 | 0.60 |      |      | 0.05 | 0.08 |      |      | 21   |
| 22   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 22   |
| 23   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 23   |
| 24   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 24   |
| 25   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 25   |
| 26   |                     |      |      |      |      |      |      |      |      |      |      | 0.08 | 0.03                | 0.03 |      |      |      |      |      |      |      |      |      |      | 26   |
| 27   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 27   |
| 28   |                     |      |      |      |      |      | 0.02 | 0.03 | 0.13 |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 28   |
| 29   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      |      |      |      |      |      | 29   |
| 30   |                     |      |      |      |      |      |      |      |      |      |      |      |                     |      |      |      |      |      |      | 0.01 | 0.07 |      |      |      | 30   |
| Sum  | 0.00                | 0.01 | 0.32 | 0.42 | 0.57 | 0.24 | 0.04 | 0.03 | 0.14 | 0.00 | 0.00 | 0.08 | 0.20                | 0.04 | 0.10 | 0.03 | 0.16 | 0.60 | 0.07 | 0.03 | 0.25 | 0.11 | 0.08 | 0.03 | 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  
June 2021: Westford



Wind Rose: June 2021  
Westford



Maximum direction of wind: 71.4 miles from 180°  
Maximum sector of wind: 605.9 miles from S  
1197.2 total miles of wind