

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

October 2017

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

| Date | Temperature | | | | | Humidity | 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 | | | | | | Solar Radiation | | |
|------------------------|-------------|------------|------------------------|------------|------------|----------|-----------------------|----------------------------|---|---------------------------------------|-----------------------|------------------|-------------------------------|---------------|-----------------------|--|-----------|-----------|---------|-------------|-------------|--------------------|----------|-----|
| | Maximum | Minimum | Average | Mean | Dew Point | | Mean | Heating Base 65°F | | | Cooling Base 65°F | Water Equivalent | Ice Pellets Snow | Maximum | Minimum | Mean | Avg Speed | Res Speed | Res Dir | Peak | | | 2 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 | 64.6 | 34.7 | 49.6 | 46.8 | 40 | 81 | 15 | 0 | ..... | 0 | 0.01 | 0.0 | 30.36 | 30.23 | 30.306 | 0.3 | 0.3 | 288 | 14 | W | 7 | 282 | 163 | |
| 2 | 67.4 | 37.2 | 52.3 | 49.9 | 44 | 83 | 13 | 0 | ..... | 0 | 0.01 | 0.0 | 30.46 | 30.29 | 30.386 | 0.1 | 0.1 | 331 | 9 | E | 4 | 283 | 158 | |
| 3 | 70.8 | 41.5 | 56.2 | 56.1 | 47 | 74 | 8 | 0 | ..... | 0 | 0.00 | 0.0 | 30.54 | 30.35 | 30.449 | 1.7 | 1.7 | 215 | 20 | SSW | 9 | 217 | 155 | |
| 4 | 75.5 | 53.4 | 64.5 | 62.8 | 54 | 75 | 0 | 0 | ..... | 0 | 0.29 | 0.0 | 30.36 | 29.90 | 30.117 | 4.2 | 4.2 | 214 | 26 | SSW | 11 | 218 | 137 | |
| 5 | 68.6 | 50.4 | 59.5 | 59.1 | 52 | 78 | 5 | 0 | ..... | 0 | 0.01 | 0.0 | 30.02 | 29.91 | 29.973 | 1.3 | 1.3 | 264 | 22 | WSW | 10 | 284 | 129 | |
| 6 | 57.1 | 48.7 | 52.9 | 53.8 | 51 | 90 | 12 | 0 | ..... | 0 | 0.02 | 0.0 | 30.07 | 29.95 | 30.017 | 0.2 | 0.2 | 227 | 9 | WSW | 6 | 209 | 36 | |
| 7 | 67.8 | 52.7 | 60.3 | 61.5 | 58 | 89 | 4 | 0 | ..... | 0 | 0.06 | 0.0 | 30.06 | 29.82 | 29.958 | 2.8 | 2.8 | 213 | 25 | S | 14 | 220 | 56 | |
| 8 | 75.7 | 55.3 | 65.5 | 66.8 | 61 | 82 | 0 | 1 | ..... | 0 | 0.30 | 0.0 | 29.92 | 29.61 | 29.768 | 3.4 | 3.0 | 230 | 29 | S | 12 | 210 | 96 | |
| 9 | 63.5 | 54.8 | 59.1 | 59.8 | 59 | 96 | 5 | 0 | ..... | 0 | 1.42 | 0.0 | 29.94 | 29.69 | 29.835 | 0.4 | 0.4 | 311 | 16 | NW | 8 | 308 | 18 | |
| 10 | 73.4 | 54.4 | 63.9 | 62.1 | 58 | 87 | 1 | 0 | ..... | 0 | 0.02 | 0.0 | 30.08 | 29.87 | 29.985 | 0.2 | 0.2 | 284 | 16 | WNW | 6 | 304 | 135 | |
| 11 | 56.6 | 37.1 | 46.8 | 48.6 | 43 | 81 | 18 | 0 | ..... | 0 | 0.00 | 0.0 | 30.33 | 30.07 | 30.219 | 0.2 | 0.2 | 21 | 12 | NNE | 5 | 28 | 67 | |
| 12 | 60.0 | 31.3 | 45.6 | 43.9 | 38 | 81 | 19 | 0 | ..... | 0 | 0.01 | 0.0 | 30.44 | 30.33 | 30.391 | 0.1 | 0.0 | 299 | 7 | WSW | 3 | 297 | 136 | |
| 13 | 64.5 | 35.9 | 50.2 | 50.1 | 41 | 72 | 14 | 0 | ..... | 0 | 0.01 | 0.0 | 30.41 | 30.20 | 30.319 | 2.7 | 2.7 | 210 | 25 | SW | 12 | 205 | 115 | |
| 14 | 65.8 | 53.9 | 59.9 | 59.0 | 54 | 83 | 5 | 0 | ..... | 0 | 0.00 | 0.0 | 30.20 | 30.08 | 30.149 | 2.8 | 2.8 | 213 | 21 | SW | 11 | 203 | 62 | |
| 15 | 71.8 | 54.5 | 63.2 | 63.2 | 58 | 83 | 1 | 0 | ..... | 0 | 0.03 | 0.0 | 30.08 | 29.43 | 29.717 | 5.6 | 5.4 | 212 | 34 | S | 17 | 208 | 76 | |
| 16 | 63.6 | 32.6 | 48.1 | 42.4 | 37 | 82 | 16 | 0 | ..... | 0 | 0.01 | 0.0 | 30.17 | 29.57 | 29.972 | 1.5 | 1.5 | 309 | 32 | WNW | 15 | 298 | 33 | |
| 17 | 54.9 | 27.9 | 41.4* | 41.3 | 32 | 72 | 23 | 0 | ..... | 0 | 0.00 | 0.0 | 30.27 | 30.05 | 30.156 | 2.1 | 2.1 | 210 | 21 | SSW | 10 | 211 | 112 | |
| 18 | 67.3 | 42.8 | 55.1 | 53.4 | 43 | 69 | 10 | 0 | ..... | 0 | 0.00 | 0.0 | 30.21 | 30.05 | 30.141 | 1.7 | 1.6 | 218 | 16 | SW | 9 | 211 | 120 | |
| 19 | 68.7 | 51.2 | 59.9 | 59.7 | 47 | 63 | 5 | 0 | ..... | 0 | 0.00 | 0.0 | 30.13 | 29.80 | 29.959 | 4.3 | 4.0 | 217 | 28 | S | 14 | 207 | 106 | |
| 20 | 64.2 | 44.4 | 54.3 | 53.0 | 39 | 61 | 11 | 0 | ..... | 0 | 0.00 | 0.0 | 30.12 | 29.90 | 30.028 | 1.6 | 1.6 | 292 | 24 | W | 12 | 297 | 118 | |
| 21 | 73.5 | 46.0 | 59.8 | 57.1 | 43 | 62 | 5 | 0 | ..... | 0 | 0.00 | 0.0 | 30.26 | 30.12 | 30.198 | 0.9 | 0.9 | 219 | 12 | SSW | 6 | 203 | 110 | |
| 22 | 76.5* | 45.5 | 61.0 | 60.0 | 44 | 61 | 3 | 0 | ..... | 0 | 0.00 | 0.0 | 30.32 | 30.22 | 30.267 | 1.9 | 1.9 | 208 | 21 | SSW | 11 | 205 | 110 | |
| 23 | 69.9 | 55.3 | 62.6 | 62.2 | 49 | 63 | 2 | 0 | ..... | 0 | 0.00 | 0.0 | 30.23 | 29.92 | 30.099 | 4.3 | 4.2 | 204 | 30 | S | 15 | 212 | 95 | |
| 24 | 72.5 | 61.6 | 67.0* | 66.4 | 60 | 82 | 0 | 3 | ..... | 0 | 0.20 | 0.0 | 29.92 | 29.60 | 29.712 | 4.1 | 3.9 | 191 | 26 | SSW | 12 | 183 | 40 | |
| 25 | 64.2 | 49.9 | 57.0 | 58.1 | 51 | 78 | 8 | 0 | ..... | 0 | T | 0.0 | 29.76 | 29.60 | 29.643 | 1.0 | 0.7 | 249 | 20 | WSW | 8 | 244 | 69 | |
| 26 | 50.0 | 41.2 | 45.6 | 44.8 | 43 | 94 | 19 | 0 | ..... | 0 | 1.12 | 0.0 | 29.74 | 29.64 | 29.695 | 0.9 | 0.8 | 285 | 18 | WNW | 9 | 289 | 18 | |
| 27 | 55.6 | 40.9 | 48.3 | 46.3 | 39 | 76 | 16 | 0 | ..... | 0 | 0.01 | 0.0 | 29.98 | 29.67 | 29.896 | 3.0 | 2.8 | 252 | 18 | WSW | 10 | 253 | 90 | |
| 28 | 67.2 | 48.5 | 57.8 | 55.7 | 43 | 62 | 7 | 0 | ..... | 0 | 0.00 | 0.0 | 29.96 | 29.77 | 29.858 | 4.2 | 4.1 | 201 | 29 | SSW | 14 | 199 | 98 | |
| 29 | 59.5 | 50.4 | 55.0 | 55.1 | 51 | 88 | 10 | 0 | ..... | 0 | 0.23 | 0.0 | 29.81 | 29.27 | 29.665 | 2.1 | 2.0 | 193 | 22 | SSW | 13 | 206 | 23 | |
| 30 | 65.4 | 45.0 | 55.2 | 50.3 | 42 | 73 | 10 | 0 | ..... | 0 | 0.07 | 0.0 | 29.56 | 28.84 | 29.298 | 4.7 | 3.1 | 234 | 36 | ESE | 13 | 177 | 23 | |
| 31 | 46.0 | 38.5 | 42.3 | 42.5 | 34 | 73 | 22 | 0 | ...4..... | 0 | 0.02 | 0.0 | 30.12 | 29.56 | 29.830 | 3.5 | 2.6 | 242 | 26 | W | 0 | 0 | 17 | |
| Sum | Sum | ----- | ----- | --- | ---- | | Ttl | Ttl | | | | | Total | Total | For the month: | | | | | | --- | | | |
| 2022 | 1418 | | | | | | 287 | 4 | | | Number of Days | | 3.85 | 0.0 | 30.54 | 28.84 | 30.000 | 2.2 | 1.8 | 222 | 36 | ESE | 17 | 208 |
| Avg | Avg | Avg | Mean | Avg | Avg | | ---- | ---- | | | | Precip | Season Ttl | Date | Date | ----- | ---- | --- | | Date | Date | Avg | | |
| 65.2 | 45.7 | 55.5 | 54.6 | 47 | 77.2 | | ---- | ---- | | | | ≥.01 inch | 19 | 36.77 | 0.0 | 3 | 30 | ----- | ---- | --- | | 30 | 15 | 88 |
| 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 | | | 518 | 340 | Thunder | 0 | Precipitation | | | Snow, Ice Plts | | | | | | | | | | | |
| ≥ 90°F | ≤ 32°F | ≤ 32°F | ≤ 0°F | ---- | ---- | | | Heavy Fog | 0 | 1.44 | 9-10 | 0.0 | - | | | | | | | | | | | |
| 0 | 0 | 2 | 0 | ---- | ---- | | | Clear | 6 | Partly Cloudy | | | 14 | Cloudy | | | 11 | | | | | | | |

NOTES:
 Units: 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: Solar Radiation is measured in Watts/m^2 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

October 2017: 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 | 30.13 | 0.00 | 51 | 46 | 81 | 19 | 0 | 10 | 0 | 29.90 | 0.00 | 59 | 49 | 70 | 30 | 2 | 13 | 0 | 30.12 | 0.00 | 46 | 38 | 74 | 22 | 0 | 0 | | |
| 03 | 0 | 30.10 | 0.00 | 54 | 47 | 77 | 19 | 4 | 12 | 0 | 29.94 | 0.00 | 53 | 38 | 56 | 26 | 2 | 9 | 0 | 30.15 | 0.00 | 51 | 39 | 65 | 21 | 0 | 2 | | |
| 06 | 0 | 30.06 | 0.00 | 53 | 46 | 77 | 20 | 5 | 11 | 0 | 29.98 | 0.00 | 47 | 39 | 73 | 24 | 0 | 8 | 0 | 30.17 | 0.00 | 49 | 38 | 66 | 22 | 2 | 8 | | |
| 09 | 30 | 30.01 | 0.00 | 56 | 47 | 72 | 21 | 6 | 13 | 30 | 30.05 | 0.00 | 49 | 40 | 70 | 30 | 2 | 14 | 40 | 30.22 | 0.00 | 53 | 39 | 57 | 22 | 2 | 10 | | |
| 12 | 510 | 29.94 | 0.00 | 65 | 48 | 54 | 20 | 6 | 19 | 471 | 30.06 | 0.00 | 58 | 39 | 48 | 30 | 10 | 21 | 454 | 30.21 | 0.00 | 67 | 42 | 40 | 28 | 5 | 10 | | |
| 15 | 329 | 29.83 | 0.00 | 68 | 46 | 45 | 20 | 7 | 21 | 330 | 30.05 | 0.00 | 64 | 37 | 37 | 30 | 1 | 11 | 315 | 30.20 | 0.00 | 73 | 49 | 43 | 16 | 0 | 4 | | |
| 18 | 0 | 29.83 | 0.00 | 62 | 45 | 52 | 23 | 1 | 4 | 0 | 30.06 | 0.00 | 55 | 39 | 54 | 01 | 0 | 0 | 0 | 30.21 | 0.00 | 60 | 49 | 69 | 21 | 0 | 0 | | |
| 21 | 0 | 29.88 | 0.00 | 62 | 47 | 58 | 26 | 6 | 15 | 0 | 30.09 | 0.00 | 47 | 39 | 74 | 01 | 0 | 0 | 0 | 30.25 | 0.00 | 51 | 46 | 82 | 21 | 0 | 5 | | |
| OCT 22 | | | | | | | | | | OCT 23 | | | | | | | | | | OCT 24 | | | | | | | | | |
| 00 | 0 | 30.26 | 0.00 | 54 | 47 | 78 | 21 | 0 | 0 | 0 | 30.23 | 0.00 | 61 | 44 | 54 | 20 | 5 | 11 | 0 | 29.92 | 0.00 | 62 | 55 | 78 | 17 | 3 | 13 | | |
| 03 | 0 | 30.28 | 0.00 | 50 | 46 | 86 | 21 | 0 | 0 | 0 | 30.20 | 0.00 | 59 | 42 | 52 | 21 | 0 | 9 | 0 | 29.85 | 0.00 | 64 | 57 | 78 | 22 | 0 | 13 | | |
| 06 | 0 | 30.30 | 0.00 | 46 | 44 | 92 | 21 | 0 | 0 | 0 | 30.18 | 0.00 | 57 | 39 | 51 | 20 | 3 | 11 | 0 | 29.77 | 0.00 | 66 | 58 | 77 | 21 | 2 | 13 | | |
| 09 | 125 | 30.31 | 0.00 | 54 | 48 | 81 | 21 | 5 | 8 | 47 | 30.18 | 0.00 | 59 | 40 | 50 | 21 | 5 | 23 | 118 | 29.73 | 0.00 | 68 | 60 | 74 | 15 | 3 | 13 | | |
| 12 | 475 | 30.28 | 0.00 | 71 | 47 | 43 | 20 | 7 | 12 | 255 | 30.12 | 0.00 | 67 | 52 | 59 | 21 | 11 | 20 | 139 | 29.69 | 0.00 | 67 | 63 | 86 | 17 | 2 | 12 | | |
| 15 | 338 | 30.24 | 0.00 | 76 | 40 | 28 | 20 | 5 | 18 | 320 | 30.05 | 0.00 | 70 | 56 | 62 | 20 | 8 | 21 | 86 | 29.63 | 0.00 | 70 | 63 | 77 | 19 | 3 | 18 | | |
| 18 | 0 | 30.23 | 0.00 | 68 | 39 | 35 | 22 | 3 | 12 | 0 | 30.01 | 0.00 | 65 | 55 | 71 | 18 | 1 | 9 | 0 | 29.62 | 0.00 | 65 | 64 | 94 | 18 | 0 | 7 | | |
| 21 | 0 | 30.23 | 0.00 | 62 | 44 | 51 | 21 | 2 | 8 | 0 | 29.97 | 0.00 | 61 | 54 | 76 | 19 | 0 | 5 | 0 | 29.64 | 0.00 | 65 | 62 | 92 | 21 | 7 | 16 | | |
| OCT 25 | | | | | | | | | | OCT 26 | | | | | | | | | | OCT 27 | | | | | | | | | |
| 00 | 0 | 29.63 | 0.00 | 64 | 61 | 89 | 21 | 5 | 11 | 0 | 29.71 | 0.00 | 50 | 42 | 74 | 04 | 0 | 5 | 0 | 29.67 | 0.00 | 43 | 41 | 91 | 28 | 1 | 10 | | |
| 03 | 0 | 29.63 | 0.00 | 61 | 59 | 92 | 20 | 2 | 8 | 0 | 29.73 | 0.00 | 46 | 44 | 91 | 34 | 0 | 0 | 0 | 29.73 | 0.00 | 43 | 39 | 87 | 26 | 7 | 13 | | |
| 06 | 0 | 29.64 | 0.00 | 56 | 50 | 81 | 10 | 0 | 0 | 0 | 29.69 | 0.00 | 45 | 44 | 95 | 29 | 0 | 0 | 0 | 29.84 | 0.00 | 43 | 38 | 84 | 25 | 9 | 16 | | |
| 09 | 74 | 29.63 | 0.00 | 57 | 51 | 82 | 08 | 0 | 0 | 19 | 29.72 | 0.00 | 45 | 44 | 95 | 34 | 0 | 0 | 40 | 29.93 | 0.00 | 43 | 37 | 81 | 27 | 1 | 10 | | |
| 12 | 257 | 29.63 | 0.00 | 63 | 55 | 75 | 27 | 4 | 9 | 69 | 29.69 | 0.04 | 46 | 45 | 96 | 00 | 0 | 0 | 432 | 29.96 | 0.00 | 49 | 39 | 69 | 29 | 7 | 12 | | |
| 15 | 188 | 29.62 | 0.00 | 62 | 50 | 65 | 21 | 3 | 8 | 51 | 29.65 | 0.10 | 46 | 45 | 96 | 34 | 0 | 9 | 221 | 29.96 | 0.00 | 53 | 40 | 61 | 20 | 0 | 9 | | |
| 18 | 0 | 29.61 | 0.00 | 58 | 49 | 72 | 22 | 0 | 0 | 0 | 29.71 | 0.19 | 42 | 40 | 95 | 28 | 3 | 11 | 0 | 29.97 | 0.00 | 46 | 40 | 79 | 18 | 0 | 0 | | |
| 21 | 0 | 29.69 | 0.00 | 52 | 44 | 74 | 31 | 1 | 10 | 0 | 29.68 | 0.00 | 42 | 41 | 96 | 29 | 0 | 0 | 0 | 29.98 | 0.00 | 47 | 38 | 71 | 20 | 1 | 8 | | |
| OCT 28 | | | | | | | | | | OCT 29 | | | | | | | | | | OCT 30 | | | | | | | | | |
| 00 | 0 | 29.95 | 0.00 | 49 | 38 | 65 | 18 | 3 | 11 | 0 | 29.81 | 0.00 | 58 | 49 | 71 | 19 | 6 | 19 | 0 | 29.27 | 0.00 | 56 | 54 | 94 | 05 | 0 | 0 | | |
| 03 | 0 | 29.94 | 0.00 | 49 | 37 | 64 | 20 | 3 | 11 | 0 | 29.81 | 0.00 | 57 | 51 | 80 | 21 | 3 | 14 | 0 | 28.88 | 0.00 | 65 | 57 | 77 | 13 | 11 | 24 | | |
| 06 | 0 | 29.92 | 0.00 | 49 | 38 | 65 | 19 | 2 | 14 | 0 | 29.78 | 0.00 | 55 | 52 | 91 | 20 | 0 | 5 | | | | | | | | | | | |
| 09 | 26 | 29.90 | 0.00 | 51 | 40 | 66 | 17 | 2 | 13 | 37 | 29.78 | 0.00 | 51 | 49 | 94 | 20 | 0 | 0 | | | | | | | | | | | |
| 12 | 369 | 29.86 | 0.00 | 61 | 44 | 55 | 20 | 4 | 15 | 67 | 29.72 | 0.00 | 56 | 54 | 96 | 17 | 5 | 10 | | | | | | | | | | | |
| 15 | 258 | 29.77 | 0.00 | 66 | 47 | 50 | 21 | 3 | 24 | 116 | 29.63 | 0.00 | 59 | 51 | 74 | 15 | 2 | 8 | 35 | 29.21 | 0.00 | 45 | 39 | 79 | 29 | 10 | 19 | | |
| 18 | 0 | 29.80 | 0.00 | 57 | 47 | 69 | 13 | 1 | 4 | 0 | 29.59 | 0.00 | 53 | 50 | 90 | 18 | 4 | 15 | 35 | 29.36 | 0.00 | 48 | 35 | 62 | 27 | 11 | 20 | | |
| 21 | 0 | 29.80 | 0.00 | 56 | 47 | 73 | 18 | 3 | 9 | 0 | 29.47 | 0.00 | 53 | 52 | 94 | 10 | 0 | 0 | 0 | 29.46 | 0.00 | 47 | 35 | 64 | 22 | 4 | 8 | | |
| OCT 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 00 | 0 | 29.54 | 0.00 | 46 | 36 | 67 | 24 | 3 | 8 | | | | | | | | | | | | | | | | | | | | |
| 03 | 0 | 29.61 | 0.00 | 45 | 37 | 73 | 20 | 4 | 9 | | | | | | | | | | | | | | | | | | | | |
| 06 | 0 | 29.67 | 0.00 | 42 | 36 | 80 | 20 | 6 | 10 | | | | | | | | | | | | | | | | | | | | |
| 09 | 0 | 29.75 | 0.00 | 41 | 36 | 81 | 00 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| 12 | 18 | 29.81 | 0.00 | 43 | 36 | 76 | 22 | 5 | 6 | | | | | | | | | | | | | | | | | | | | |
| 15 | 23 | 29.85 | 0.00 | 43 | 34 | 71 | 24 | 5 | 9 | | | | | | | | | | | | | | | | | | | | |
| 18 | 18 | 29.93 | 0.00 | 44 | 33 | 65 | 24 | 1 | 4 | | | | | | | | | | | | | | | | | | | | |
| 21 | 0 | 30.01 | 0.00 | 42 | 32 | 68 | 22 | 2 | 10 | | | | | | | | | | | | | | | | | | | | |

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 0.01" pulses from the electronic rain gauge and interpolating this rate for one hour.

SUMMARY BY HOUR

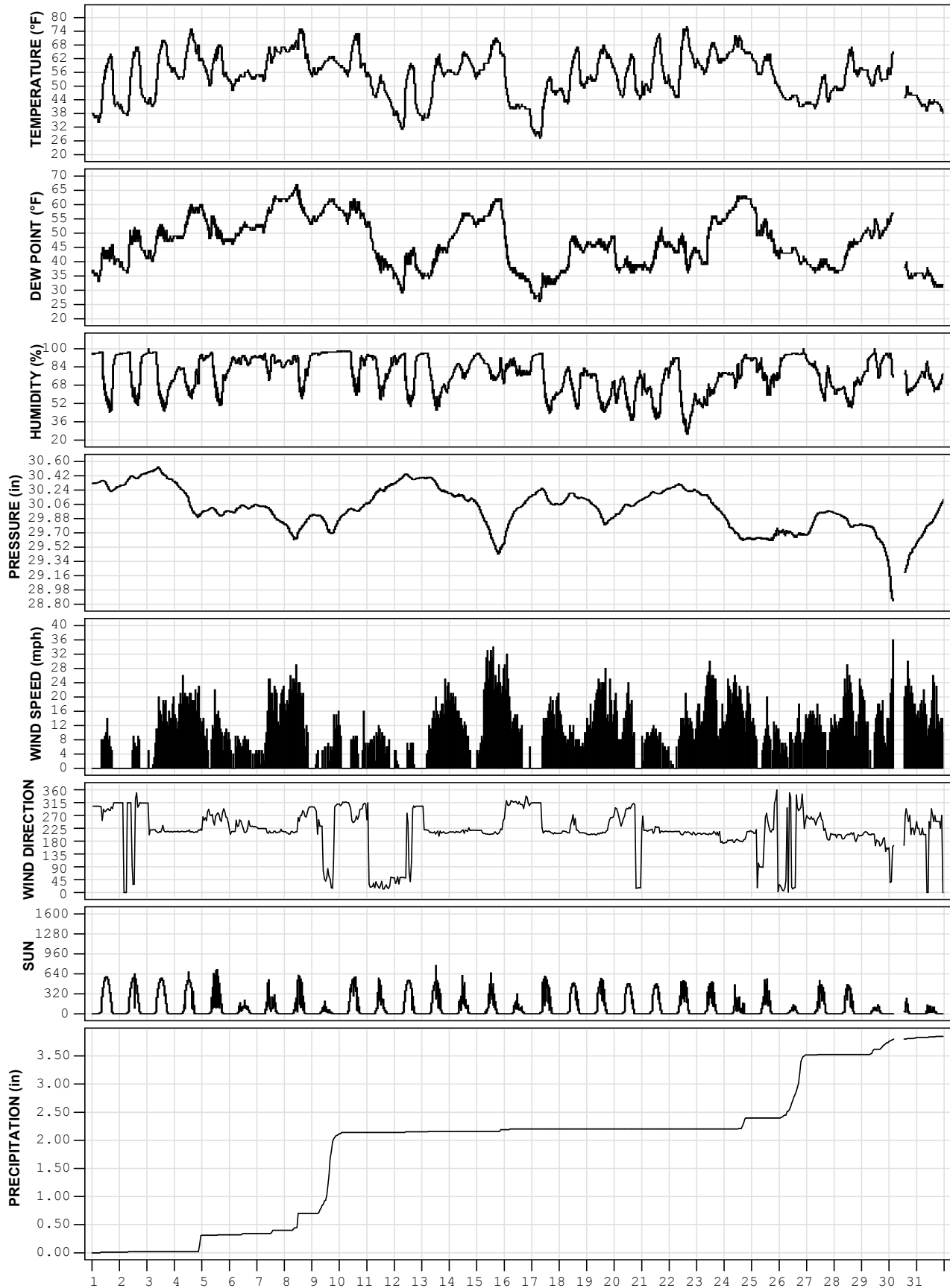
| Hour | Averages | | | | | | Resultant Wind | |
|------|----------|----------|-------------|-----------|----------|------------|----------------|-------|
| | Sunshine | Pressure | Temperature | Dew Point | Humidity | Wind Speed | Direction | Speed |
| 00 | 0 | 30.001 | 52 | 47 | 83 | 1.9 | 22 | 1.6 |
| 03 | 0 | 29.997 | 51 | 46 | 84 | 1.7 | 21 | 1.2 |
| 06 | 0 | 30.041 | 49 | 44 | 86 | 1.6 | 22 | 1.5 |
| 09 | 103 | 30.058 | 52 | 47 | 83 | 2.2 | 21 | 2.0 |
| 12 | 338 | 30.042 | 60 | 49 | 69 | 3.6 | 23 | 2.9 |
| 15 | 258 | 29.968 | 62 | 49 | 63 | 2.8 | 22 | 2.2 |
| 18 | 7 | 29.968 | 57 | 48 | 72 | 1.2 | 23 | 1.0 |
| 21 | 0 | 29.987 | 54 | 47 | 79 | 1.6 | 22 | 1.5 |

HOURLY PRECIPITATION (Water Equivalent) October 2017: Westford

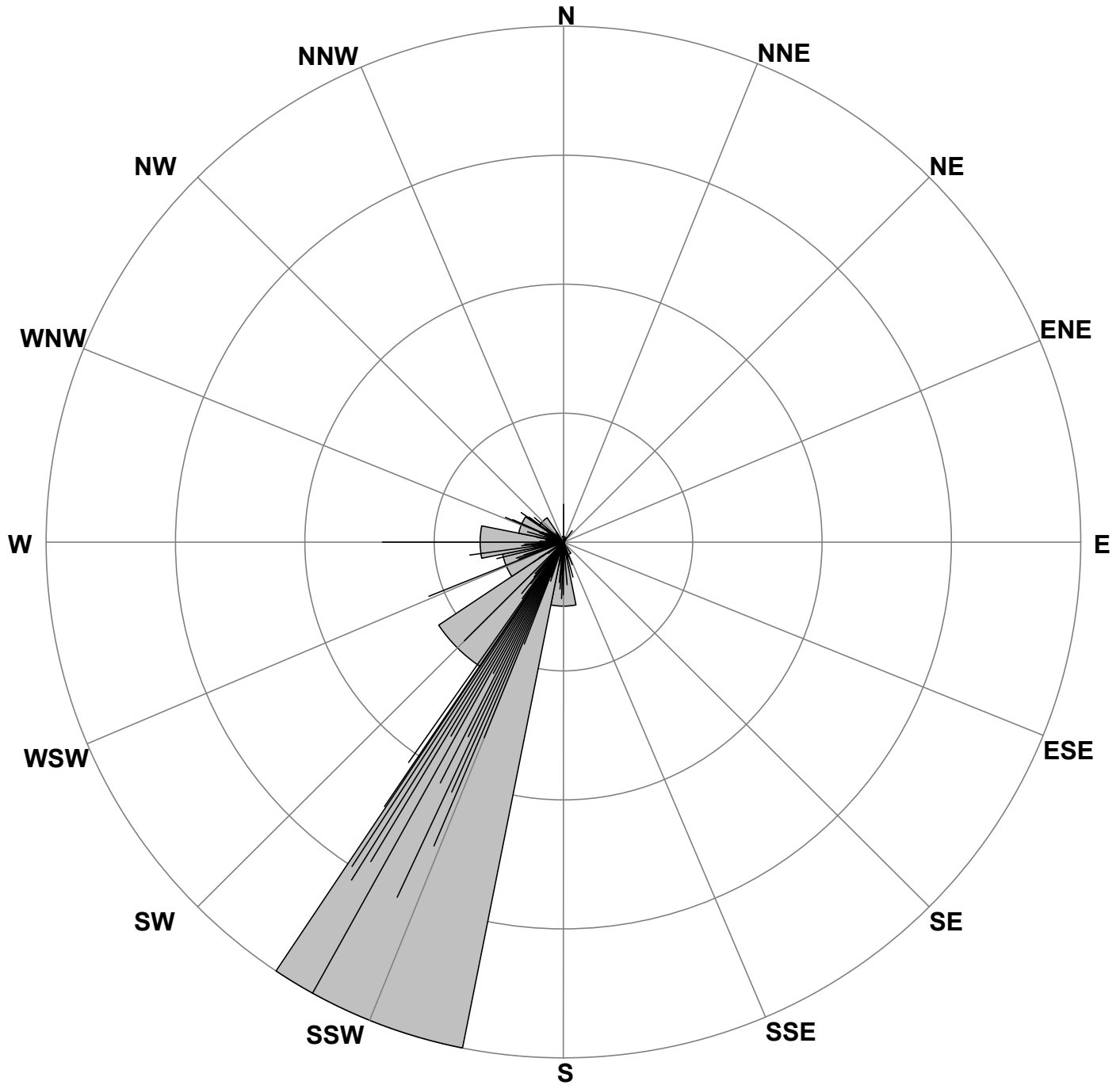
| Date | A.M. Hour Ending at | | | | | | | | | | | | P.M. Hour Ending at | | | | | | | | | | | | Date |
|------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------------|
| | 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 | | | | | | | | | | | | | | | | | 01 | |
| 02 | | | | | | | 0.01 | | | | | | | | | | | | | | | | | 02 | |
| 03 | | | | | | | | | | | | | | | | | | | | | | | | 03 | |
| 04 | | | | | | | | | | | | | | | | | | | | | | 0.12 | 0.16 | 0.01 | 04 |
| 05 | | | | | | | | | | | | | | 0.01 | | | | | | | | | | 05 | |
| 06 | | | | | | | | | | 0.01 | 0.01 | | | | | | | | | | | | | 06 | |
| 07 | | | | | | | | | | | | 0.02 | 0.04 | | | | | | | | | | | 07 | |
| 08 | | | | | | | 0.02 | 0.02 | | 0.01 | 0.25 | | | | | | | | | | | | | 08 | |
| 09 | | | | | | 0.01 | 0.05 | 0.04 | 0.04 | 0.02 | 0.06 | 0.01 | 0.09 | 0.16 | 0.19 | 0.31 | 0.12 | 0.17 | 0.05 | 0.03 | 0.03 | 0.01 | 0.01 | 0.02 | 09 |
| 10 | | 0.02 | | | | | | | | | | | | | | | | | | | | | | 10 | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | 11 | |
| 12 | | | | | | | | | 0.01 | | | | | | | | | | | | | | | 12 | |
| 13 | | | | | | 0.01 | | | | | | | | | | | | | | | | | | 13 | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | 14 | |
| 15 | | | | | | | | | | | | | | | | | | | | 0.03 | | | | 15 | |
| 16 | | | | | 0.01 | | | | | | | | | | | | | | | | | | | 16 | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | 17 | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | 18 | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | 19 | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | 20 | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | 21 | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | 22 | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | 23 | |
| 24 | | | | | | | | | | | | | 0.01 | | 0.05 | 0.05 | 0.07 | 0.02 | | | | | | 24 | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | 25 | |
| 26 | | 0.01 | 0.01 | 0.02 | 0.01 | | 0.06 | 0.01 | 0.03 | 0.05 | 0.06 | 0.05 | 0.07 | 0.04 | 0.06 | 0.06 | 0.08 | 0.18 | 0.20 | 0.06 | 0.03 | 0.01 | 0.02 | 26 | |
| 27 | | | | | | | | | | 0.01 | | | | | | | | | | | | | | 27 | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | 28 | |
| 29 | | | | | | | 0.01 | 0.01 | 0.05 | 0.02 | | | | | | | | | | | | | | 29 | |
| 30 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | | | | | | 0.01 | 0.02 | 0.02 | 0.03 | 0.01 | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 30 |
| 31 | | | | | | | | | | 0.01 | | | | | | 0.01 | | | | | | | | 31 | |
| Sum | 0.01 | 0.04 | 0.02 | 0.03 | 0.02 | 0.02 | 0.11 | 0.10 | 0.10 | 0.14 | 0.17 | 0.32 | 0.19 | 0.25 | 0.25 | 0.43 | 0.28 | 0.44 | 0.30 | 0.10 | 0.11 | 0.17 | 0.19 | 0.06 | 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 2017: Westford



**Wind Rose: October 2017
Westford**



**Maximum direction of wind: 108.3 miles from 209°
Maximum sector of wind: 838.6 miles from SSW
1587.9 total miles of wind**