

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

March 2023

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

| Date | Temperature | | | | | Humidity Mean | Deg. Days | | Precip Ty 1 fog 2 hvy fog 3 thunder 4 ice plt 5 hail 6 glaze 7 duststm 8 smk, hz 9 blw snw | Snow Cvr | Precip | | Pressure Adj. to Sea Level | | | Wind | | | | | | Solar Radiation | | |
|-----------------|-------------|---------|-----------------|------|-----------|------------------|-------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------|------------------|-------------------------------|---------|----------------|---------------------------------------------------------------|--------------|------------|-------|-----|----------|--------------------|-----|-------|
| | Maximum | Minimum | Average | Mean | Dew Point | | Heating Base 65°F | Cooling Base 65°F | | | Water Equivalent | Ice Pellets Snow | Maximum | Minimum | Mean | Avg Speed | Res Speed | Res Dir | Peak | | 2 Minute | | | |
| | | | | | | | | | | | | | | | | | | | Speed | Dir | 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 | 37.7 | 25.8 | 31.8 | 32.2 | 24 | 72 | 33 | 0 | ..... | 6 | T | 0.4 | 30.10 | 29.85 | 30.010 | 2.0 | 1.8 | 211 | 15 | W | 11 | 248 | 91 | |
| 2 | 36.7 | 28.3 | 32.5 | 32.5 | 30 | 89 | 32 | 0 | ..... | 6 | 0.12 | 0.9 | 29.88 | 29.54 | 29.688 | 3.5 | 2.1 | 255 | 23 | WNW | 12 | 281 | 21 | |
| 3 | 35.0 | 15.4 | 25.2 | 26.7 | 17 | 68 | 40 | 0 | ..... | 5 | 0.00 | 0.0 | 30.14 | 29.78 | 29.989 | 1.4 | 0.6 | 268 | 29 | SSE | 11 | 166 | 153 | |
| 4 | 34.3 | 26.9 | 30.6 | 30.3 | 28 | 91 | 34 | 0 | ..... | 8 | 0.53 | 4.6 | 29.97 | 29.56 | 29.717 | 1.0 | 0.5 | 140 | 22 | S | 9 | 148 | 28 | |
| 5 | 38.5 | 25.4 | 31.9 | 31.0 | 27 | 86 | 33 | 0 | ..... | 6 | 0.00 | 0.0 | 30.09 | 29.97 | 30.047 | 1.5 | 1.4 | 258 | 13 | WNW | 8 | 247 | 86 | |
| 6 | 38.4 | 24.9 | 31.7 | 31.1 | 19 | 62 | 33 | 0 | ..... | 6 | 0.00 | 0.0 | 30.13 | 29.84 | 30.014 | 4.7 | 4.6 | 284 | 24 | W | 14 | 264 | 184 | |
| 7 | 26.6 | 20.7 | 23.7 | 22.5 | 16 | 78 | 41 | 0 | ..... | 7 | 0.04 | 1.6 | 30.11 | 29.79 | 29.908 | 3.6 | 3.6 | 286 | 19 | WNW | 11 | 275 | 65 | |
| 8 | 29.2 | 19.6 | 24.4 | 24.3 | 19 | 81 | 40 | 0 | ..... | 7 | T | T | 30.26 | 30.11 | 30.226 | 2.2 | 2.0 | 305 | 16 | W | 10 | 281 | 80 | |
| 9 | 32.0 | 18.4 | 25.2 | 25.9 | 20 | 79 | 40 | 0 | ..... | 6 | 0.00 | 0.0 | 30.25 | 30.19 | 30.229 | 1.8 | 1.7 | 295 | 16 | W | 10 | 274 | 85 | |
| 10 | 35.9 | 16.2 | 26.1 | 25.2 | 19 | 80 | 39 | 0 | ..... | 6 | 0.00 | 0.0 | 30.19 | 29.82 | 29.993 | 0.7 | 0.5 | 304 | 10 | W | 8 | 267 | 174 | |
| 11 | 33.2 | 15.3 | 24.3 | 23.4 | 18 | 81 | 41 | 0 | ..... | 5 | 0.00 | 0.0 | 30.02 | 29.80 | 29.905 | 0.8 | 0.8 | 272 | 12 | W | 7 | 271 | 129 | |
| 12 | 44.1 | 14.6 | 29.3 | 29.0 | 20 | 73 | 35 | 0 | ..... | 4 | 0.00 | 0.0 | 30.06 | 29.96 | 30.015 | 0.6 | 0.5 | 269 | 9 | NNE | 6 | 257 | 197 | |
| 13 | 40.8 | 28.8 | 34.8 | 35.7 | 28 | 75 | 30 | 0 | ..... | 4 | 0.00 | 0.0 | 29.98 | 29.81 | 29.912 | 1.2 | 1.2 | 155 | 16 | SSE | 9 | 169 | 67 | |
| 14 | 34.6 | 30.2 | 32.4 | 31.5 | 30 | 94 | 32 | 0 | ..... | 12 | 0.85 | 8.4 | 29.81 | 29.56 | 29.640 | 0.0 | 0.0 | 0 | 0 | SE | 0 | 145 | 5 | |
| 15 | 35.6 | 27.0 | 31.3 | 30.6 | 26 | 85 | 33 | 0 | ..... | 15 | 0.53 | 4.0 | 29.92 | 29.57 | 29.756 | 3.8 | 3.6 | 282 | 24 | W | 11 | 273 | 18 | |
| 16 | 35.2 | 24.0 | 29.6 | 30.6 | 23 | 75 | 35 | 0 | ..... | 14 | T | T | 29.93 | 29.85 | 29.904 | 1.6 | 1.4 | 231 | 13 | WSW | 9 | 242 | 54 | |
| 17 | 42.4 | 31.5 | 37.0 | 37.6 | 34 | 87 | 28 | 0 | ..... | 9 | 0.22 | 0.0 | 29.85 | 29.43 | 29.599 | 2.9 | 2.8 | 167 | 21 | SSE | 11 | 180 | 32 | |
| 18 | 40.0 | 26.3 | 33.1 | 34.2 | 25 | 70 | 32 | 0 | ..... | 7 | 0.01 | 0.1 | 29.70 | 29.48 | 29.630 | 5.1 | 4.9 | 235 | 23 | WSW | 15 | 248 | 95 | |
| 19 | 28.4 | 15.5 | 21.9* | 21.5 | 11 | 64 | 43 | 0 | ..... | 7 | 0.01 | T | 30.02 | 29.64 | 29.806 | 7.2 | 6.9 | 228 | 30 | SSW | 17 | 260 | 127 | |
| 20 | 43.2 | 17.6 | 30.4 | 31.3 | 20 | 63 | 34 | 0 | ..... | 6 | 0.00 | 0.0 | 30.14 | 30.02 | 30.070 | 4.7 | 4.4 | 194 | 21 | SSE | 12 | 174 | 184 | |
| 21 | 45.2 | 29.4 | 37.3 | 35.9 | 24 | 64 | 28 | 0 | ..... | 4 | 0.00 | 0.0 | 30.36 | 30.14 | 30.228 | 3.1 | 2.3 | 194 | 22 | SSE | 12 | 218 | 110 | |
| 22 | 49.9* | 21.8 | 35.9 | 33.8 | 25 | 71 | 29 | 0 | ..... | 3 | 0.00 | 0.0 | 30.40 | 30.09 | 30.283 | 0.5 | 0.2 | 315 | 9 | W | 6 | 269 | 199 | |
| 23 | 43.4 | 31.5 | 37.5* | 39.5 | 36 | 89 | 27 | 0 | ..... | 2 | 0.44 | 0.0 | 30.09 | 29.61 | 29.794 | 2.2 | 1.9 | 182 | 15 | SSE | 8 | 180 | 26 | |
| 24 | 39.9 | 25.1 | 32.5 | 33.6 | 27 | 77 | 32 | 0 | ..... | 1 | 0.00 | 0.0 | 30.11 | 29.73 | 29.950 | 2.6 | 2.5 | 283 | 18 | W | 9 | 293 | 123 | |
| 25 | 37.8 | 21.4 | 29.6 | 30.2 | 25 | 80 | 35 | 0 | ..... | 1 | 0.07 | 0.3 | 30.13 | 29.61 | 29.941 | 2.9 | 2.7 | 150 | 28 | SSE | 14 | 145 | 55 | |
| 26 | 39.0 | 32.6 | 35.8 | 36.0 | 31 | 81 | 29 | 0 | ..... | 1 | T | T | 29.98 | 29.59 | 29.737 | 5.0 | 4.7 | 213 | 25 | SSE | 14 | 234 | 39 | |
| 27 | 44.9 | 28.2 | 36.6 | 37.2 | 29 | 72 | 28 | 0 | ..... | 1 | 0.00 | 0.0 | 30.05 | 29.97 | 30.018 | 1.0 | 0.7 | 277 | 11 | W | 8 | 262 | 163 | |
| 28 | 41.5 | 26.3 | 33.9 | 33.6 | 26 | 75 | 31 | 0 | ..... | 1 | 0.00 | 0.0 | 30.12 | 30.02 | 30.070 | 1.4 | 1.3 | 297 | 14 | W | 10 | 260 | 206 | |
| 29 | 48.6 | 21.2 | 34.9 | 35.1 | 25 | 69 | 30 | 0 | ..... | T | 0.04 | 0.0 | 30.11 | 29.80 | 29.989 | 4.3 | 3.8 | 191 | 37 | W | 19 | 223 | 206 | |
| 30 | 33.7 | 16.7 | 25.2 | 25.3 | 13 | 61 | 39 | 0 | ..... | T | 0.03 | T | 30.27 | 29.92 | 30.160 | 6.2 | 5.9 | 266 | 31 | W | 17 | 272 | 202 | |
| 31 | 39.1 | 19.7 | 29.4 | 30.1 | 22 | 74 | 35 | 0 | ..... | 2 | 0.02 | 1.5 | 30.29 | 29.83 | 30.131 | 3.0 | 2.9 | 175 | 19 | SSE | 12 | 158 | 103 | |
| Sum | Sum | ----- | ----- | --- | ---- | | Ttl | Ttl | | | | | Total | Total | For the month: | | | | | | --- | | | |
| 1185 | 726 | | | | | | 1051 | 0 | Number of Days | | | | 2.91 | 21.8 | 30.40 | 29.43 | 29.947 | 2.7 | 1.7 | 235 | 37 | W | 19 | 223 |
| Avg | Avg | Avg | Mean | Avg | Avg | ---- | ---- | | Precip | Season Ttl | Date | Date | ----- | ---- | ---- | --- | Date | Date | Avg | | | | | |
| 38.2 | 23.4 | 30.8 | 30.9 | 24 | 76.3 | ---- | ---- | | ≥.01 inch | 13 | 8.97 | 71.4 | 22 | 17 | ----- | ---- | --- | 29 | 29 | 107 | | | | |
| Number of Days | | | | | | | Season to Date | Snow, Ice ≥1.0 inch | 5 | Greatest in 24 Hours and Dates | | | | | | Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date | | | | | | | | |
| Max Temperature | | | Min Temperature | | | 5992 | 0 | Thunder | 0 | Precipitation | | | Snow, Ice Plts | | | | | | | | | | | |
| ≥ 90°F | ≤ 32°F | ≤ 32°F | ≤ 0°F | ---- | ---- | | | Heavy Fog | 0 | 0.02 | 31 | 8.4 | 14 | 15 | | | 15 | | | | | | | |
| 0 | 4 | 30 | 0 | ---- | ---- | | | Clear | 5 | Partly Cloudy | | 10 | 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.

OBSERVATIONS AT 3-HOUR INTERVALS

March 2023: 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 | | | | | | | | |
| MAR 01 | | | | | | | | | | MAR 02 | | | | | | | | | | MAR 03 | | | | | | | | | |
| 00 | 0 | 29.95 | 0.00 | 32 | 26 | 79 | 23 | 4 | 10 | 0 | 29.85 | 0.00 | 33 | 29 | 85 | 15 | 2 | 9 | 0 | 29.88 | 0.00 | 28 | 25 | 86 | 30 | 6 | 14 | | |
| 03 | 0 | 30.01 | 0.00 | 30 | 22 | 73 | 26 | 6 | 12 | 0 | 29.72 | 0.00 | 34 | 30 | 83 | 14 | 2 | 9 | 0 | 29.95 | 0.00 | 25 | 21 | 85 | 29 | 4 | 11 | | |
| 06 | 0 | 30.08 | 0.00 | 28 | 22 | 76 | 17 | 1 | 4 | 0 | 29.64 | 0.00 | 35 | 31 | 86 | 17 | 2 | 6 | 0 | 30.05 | 0.00 | 17 | 13 | 82 | 35 | 0 | 8 | | |
| 09 | 360 | 30.09 | 0.00 | 34 | 23 | 65 | 19 | 4 | 7 | 49 | 29.60 | 0.00 | 34 | 31 | 90 | 09 | 0 | 0 | 360 | 30.09 | 0.00 | 22 | 14 | 73 | 01 | 0 | 4 | | |
| 12 | 360 | 30.08 | 0.00 | 37 | 23 | 58 | 19 | 3 | 6 | 88 | 29.55 | 0.00 | 37 | 34 | 91 | 17 | 3 | 8 | 661 | 30.10 | 0.00 | 29 | 15 | 56 | 31 | 1 | 4 | | |
| 15 | 74 | 29.99 | 0.00 | 36 | 23 | 59 | 16 | 2 | 8 | 40 | 29.61 | 0.00 | 29 | 27 | 92 | 26 | 5 | 20 | 364 | 30.03 | 0.00 | 33 | 16 | 50 | 26 | 4 | 9 | | |
| 18 | 0 | 29.98 | 0.00 | 33 | 24 | 70 | 13 | 0 | 4 | 0 | 29.73 | 0.00 | 29 | 28 | 93 | 28 | 4 | 8 | 0 | 29.95 | 0.00 | 27 | 18 | 69 | 25 | 0 | 0 | | |
| 21 | 0 | 29.93 | 0.00 | 31 | 28 | 90 | 16 | 0 | 1 | 0 | 29.80 | 0.00 | 30 | 28 | 94 | 28 | 2 | 15 | 0 | 29.87 | 0.00 | 27 | 20 | 75 | 25 | 0 | 2 | | |
| MAR 04 | | | | | | | | | | MAR 05 | | | | | | | | | | MAR 06 | | | | | | | | | |
| 00 | 0 | 29.81 | 0.00 | 31 | 26 | 84 | 14 | 7 | 23 | 0 | 29.97 | 0.00 | 27 | 26 | 95 | 29 | 0 | 4 | 0 | 30.09 | 0.00 | 32 | 27 | 82 | 30 | 2 | 12 | | |
| 03 | 0 | 29.64 | 0.00 | 29 | 25 | 86 | 13 | 6 | 16 | 0 | 30.00 | 0.00 | 27 | 25 | 95 | 27 | 0 | 0 | 0 | 30.09 | 0.00 | 29 | 23 | 79 | 27 | 4 | 9 | | |
| 06 | 0 | 29.57 | 0.00 | 29 | 27 | 93 | 11 | 1 | 3 | 0 | 30.02 | 0.00 | 26 | 25 | 95 | 27 | 0 | 0 | 0 | 30.12 | 0.00 | 27 | 21 | 78 | 32 | 3 | 8 | | |
| 09 | 18 | 29.59 | 0.00 | 30 | 28 | 93 | 03 | 0 | 3 | 56 | 30.07 | 0.00 | 30 | 27 | 89 | 25 | 0 | 0 | 383 | 30.11 | 0.00 | 30 | 20 | 65 | 28 | 4 | 13 | | |
| 12 | 107 | 29.62 | 0.00 | 34 | 31 | 89 | 33 | 0 | 5 | 336 | 30.06 | 0.00 | 34 | 29 | 81 | 24 | 3 | 9 | 682 | 30.04 | 0.00 | 36 | 18 | 49 | 32 | 4 | 14 | | |
| 15 | 104 | 29.72 | 0.00 | 34 | 31 | 89 | 35 | 1 | 5 | 276 | 30.06 | 0.00 | 36 | 28 | 75 | 25 | 5 | 11 | 475 | 29.97 | 0.00 | 37 | 19 | 46 | 27 | 6 | 17 | | |
| 18 | 0 | 29.82 | 0.00 | 32 | 30 | 93 | 35 | 0 | 0 | 0 | 30.07 | 0.00 | 32 | 27 | 82 | 23 | 3 | 6 | 0 | 29.92 | 0.00 | 32 | 17 | 52 | 27 | 7 | 16 | | |
| 21 | 0 | 29.90 | 0.00 | 29 | 27 | 94 | 24 | 1 | 7 | 0 | 30.09 | 0.00 | 33 | 29 | 84 | 24 | 5 | 10 | 0 | 29.88 | 0.00 | 30 | 16 | 56 | 27 | 5 | 13 | | |
| MAR 07 | | | | | | | | | | MAR 08 | | | | | | | | | | MAR 09 | | | | | | | | | |
| 00 | 0 | 29.84 | 0.00 | 27 | 14 | 58 | 28 | 3 | 16 | 0 | 30.11 | 0.00 | 22 | 18 | 84 | 28 | 2 | 11 | 0 | 30.23 | 0.00 | 28 | 20 | 74 | 27 | 2 | 6 | | |
| 03 | 0 | 29.79 | 0.00 | 23 | 14 | 66 | 29 | 2 | 11 | 0 | 30.15 | 0.00 | 21 | 17 | 86 | 29 | 3 | 9 | 0 | 30.21 | 0.00 | 26 | 20 | 78 | 27 | 7 | 14 | | |
| 06 | 0 | 29.80 | 0.00 | 22 | 16 | 80 | 29 | 1 | 7 | 0 | 30.21 | 0.00 | 20 | 17 | 88 | 27 | 2 | 8 | 0 | 30.21 | 0.00 | 25 | 20 | 82 | 28 | 3 | 11 | | |
| 09 | 62 | 29.81 | 0.00 | 22 | 18 | 85 | 29 | 4 | 13 | 137 | 30.25 | 0.00 | 22 | 18 | 84 | 32 | 2 | 8 | 109 | 30.24 | 0.00 | 25 | 20 | 83 | 28 | 3 | 9 | | |
| 12 | 281 | 29.85 | 0.00 | 23 | 19 | 85 | 27 | 6 | 11 | 366 | 30.26 | 0.00 | 26 | 20 | 77 | 27 | 2 | 9 | 422 | 30.24 | 0.00 | 28 | 22 | 77 | 26 | 4 | 9 | | |
| 15 | 195 | 29.93 | 0.00 | 23 | 17 | 76 | 30 | 2 | 11 | 190 | 30.26 | 0.00 | 28 | 21 | 76 | 33 | 1 | 8 | 146 | 30.24 | 0.00 | 31 | 23 | 71 | 01 | 1 | 6 | | |
| 18 | 0 | 30.03 | 0.00 | 22 | 16 | 76 | 27 | 7 | 12 | 0 | 30.26 | 0.00 | 26 | 21 | 83 | 35 | 0 | 6 | 0 | 30.24 | 0.00 | 28 | 22 | 76 | 34 | 0 | 5 | | |
| 21 | 0 | 30.09 | 0.00 | 22 | 17 | 82 | 27 | 4 | 16 | 0 | 30.24 | 0.00 | 27 | 21 | 77 | 26 | 0 | 0 | 0 | 30.23 | 0.00 | 21 | 17 | 86 | 34 | 0 | 0 | | |
| MAR 10 | | | | | | | | | | MAR 11 | | | | | | | | | | MAR 12 | | | | | | | | | |
| 00 | 0 | 30.19 | 0.00 | 19 | 16 | 90 | 34 | 0 | 0 | 0 | 29.82 | 0.00 | 21 | 18 | 87 | 35 | 0 | 0 | 0 | 30.01 | 0.00 | 20 | 17 | 89 | 34 | 0 | 0 | | |
| 03 | 0 | 30.12 | 0.00 | 17 | 15 | 92 | 34 | 0 | 0 | 0 | 29.80 | 0.00 | 19 | 16 | 87 | 35 | 0 | 0 | 0 | 30.02 | 0.00 | 19 | 17 | 90 | 34 | 0 | 0 | | |
| 06 | 0 | 30.14 | 0.00 | 19 | 16 | 91 | 34 | 0 | 0 | 0 | 29.84 | 0.00 | 16 | 14 | 91 | 35 | 0 | 0 | 0 | 30.04 | 0.00 | 16 | 14 | 90 | 34 | 0 | 0 | | |
| 09 | 383 | 30.08 | 0.00 | 27 | 22 | 80 | 04 | 0 | 3 | 445 | 29.90 | 0.00 | 23 | 18 | 79 | 32 | 1 | 5 | 28 | 30.05 | 0.00 | 20 | 18 | 92 | 34 | 0 | 0 | | |
| 12 | 615 | 30.00 | 0.00 | 34 | 23 | 64 | 25 | 6 | 9 | 369 | 29.91 | 0.00 | 27 | 20 | 74 | 25 | 2 | 8 | 661 | 30.04 | 0.00 | 35 | 22 | 61 | 26 | 3 | 8 | | |
| 15 | 364 | 29.90 | 0.00 | 36 | 24 | 63 | 32 | 1 | 6 | 302 | 29.92 | 0.00 | 32 | 23 | 68 | 30 | 1 | 5 | 492 | 30.01 | 0.00 | 42 | 23 | 47 | 26 | 4 | 6 | | |
| 18 | 0 | 29.85 | 0.00 | 28 | 21 | 76 | 35 | 0 | 3 | 0 | 29.96 | 0.00 | 27 | 21 | 77 | 34 | 0 | 0 | 77 | 29.96 | 0.00 | 41 | 23 | 49 | 26 | 1 | 6 | | |
| 21 | 0 | 29.84 | 0.00 | 23 | 19 | 84 | 35 | 0 | 0 | 0 | 30.00 | 0.00 | 24 | 20 | 84 | 34 | 0 | 0 | 0 | 29.99 | 0.00 | 29 | 23 | 77 | 26 | 0 | 0 | | |
| MAR 13 | | | | | | | | | | MAR 14 | | | | | | | | | | MAR 15 | | | | | | | | | |
| 00 | 0 | 29.98 | 0.00 | 29 | 22 | 76 | 26 | 0 | 0 | 0 | 29.81 | 0.00 | 35 | 31 | 87 | 14 | 0 | 0 | 0 | 29.57 | 0.00 | 31 | 30 | 95 | 30 | 0 | 0 | | |
| 03 | 0 | 29.96 | 0.00 | 34 | 26 | 73 | 15 | 1 | 7 | 0 | 29.74 | 0.00 | 32 | 31 | 94 | 07 | 0 | 0 | 0 | 29.59 | 0.00 | 31 | 30 | 94 | 31 | 2 | 9 | | |
| 06 | 0 | 29.95 | 0.00 | 33 | 27 | 78 | 19 | 0 | 0 | 0 | 29.69 | 0.00 | 32 | 30 | 95 | 01 | 0 | 0 | 0 | 29.65 | 0.00 | 29 | 28 | 95 | 34 | 2 | 8 | | |
| 10 | 58 | 29.95 | 0.00 | 34 | 27 | 76 | 18 | 1 | 6 | 7 | 29.66 | 0.00 | 31 | 30 | 94 | 03 | 0 | 0 | 11 | 29.72 | 0.00 | 28 | 26 | 94 | 30 | 1 | 11 | | |
| 12 | 216 | 29.94 | 0.00 | 37 | 28 | 69 | 13 | 5 | 13 | 11 | 29.61 | 0.00 | 31 | 30 | 95 | 35 | 0 | 0 | 28 | 29.79 | 0.00 | 29 | 26 | 91 | 29 | 5 | 15 | | |
| 15 | 209 | 29.89 | 0.00 | 40 | 31 | 70 | 11 | 2 | 9 | 14 | 29.57 | 0.00 | 31 | 29 | 95 | 35 | 0 | 0 | 62 | 29.81 | 0.00 | 32 | 28 | 83 | 26 | 5 | 15 | | |
| 18 | 26 | 29.86 | 0.00 | 39 | 30 | 69 | 14 | 0 | 9 | 0 | 29.58 | 0.00 | 31 | 29 | 94 | 31 | 0 | 0 | 33 | 29.85 | 0.00 | 34 | 26 | 73 | 28 | 6 | 12 | | |
| 21 | 0 | 29.86 | 0.00 | 35 | 30 | 83 | 14 | 0 | 0 | 0 | 29.59 | 0.00 | 32 | 30 | 94 | 30 | 0 | 0 | 0 | 29.90 | 0.00 | 31 | 22 | 69 | 26 | 9 | 14 | | |
| MAR 16 | | | | | | | | | | MAR 17 | | | | | | | | | | MAR 18 | | | | | | | | | |
| 00 | 0 | 29.92 | 0.00 | 29 | 18 | 64 | 26 | 5 | 13 | 0 | 29.85 | 0.00 | 32 | 30 | 91 | 17 | 0 | 0 | 0 | 29.49 | 0.00 | 40 | 38 | 91 | 22 | 6 | 11 | | |
| 03 | 0 | 29.92 | 0.00 | 26 | 14 | 61 | 24 | 3 | 9 | 0 | 29.82 | 0.00 | 35 | 30 | 82 | 16 | 0 | 8 | 0 | 29.57 | 0.00 | 37 | 32 | 81 | 25 | 10 | 23 | | |
| 06 | 0 | 29.92 | 0.00 | 24 | 14 | 66 | 15 | 0 | 9 | 0 | 29.75 | 0.00 | 32 | 29 | 89 | 06 | 0 | 0 | 0 | 29.63 | 0.00 | 33 | 25 | 71 | 25 | 10 | 17 | | |
| 09 | 91 | 29.93 | 0.00 | 31 | 20 | 64 | 18 | 1 | 7 | | | | | | | | | | 81 | 29.69 | 0.00 | 32 | 23 | 70 | 27 | 4 | 11 | | |
| 12 | 232 | 29.92 | 0.00 | 34 | 26 | 71 | 25 | 7 | 11 | | | | | | | | | | 223 | 29.69 | 0.00 | 34 | 23 | 62 | 22 | 1 | 10 | | |
| 15 | 81 | 29.89 | 0.00 | 33 | 29 | 85 | 24 | 0 | 0 | 109 | 29.47 | 0.00 | 42 | 37 | 83 | 15 | 3 | 9 | 236 | 29.64 | 0.00 | 36 | 23 | 59 | 25 | 6 | 10 | | |
| 18 | 30 | 29.88 | 0.00 | 32 | 30 | 89 | 17 | 0 | 6 | 39 | 29.45 | 0.00 | 38 | 36 | 93 | 16 | 5 | 14 | 49 | 29.61 | 0.00 | 36 | 24 | 60 | 18 | 1 | 5 | | |
| 21 | 0 | 29.89 | 0.00 | 32 | 30 | 90 | 17 | 0 | 0 | 0 | 29.45 | 0.00 | 41 | 39 | 91 | 16 | 8 | 16 | 0 | 29.67 | 0.00 | 30 | 23 | 76 | 21 | 4 | 10 | | |

MAXIMUM SHORT DURATION PRECIPITATION

| Time Period (minutes) | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Ended: Date | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| Ended: Time | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2358 | 2358 |

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

March 2023: Westford

| Hour | MAR 19 | | | | | | | | | MAR 20 | | | | | | | | | MAR 21 | | | | | | | | |
|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|--------|----------|----------|---------------|-------------|-----------|----------|-----------|-------|------|
| | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Direction | Speed | Gust | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Direction | Speed | Gust | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | Direction | Speed | Gust |
| 00 | 0 | 29.64 | 0.00 | 28 | 18 | 67 | 24 | 5 | 10 | 0 | 30.02 | 0.00 | 18 | 9 | 69 | 16 | 5 | 9 | 0 | 30.14 | 0.00 | 37 | 17 | 43 | 21 | 7 | 19 |
| 03 | 0 | 29.71 | 0.00 | 24 | 15 | 70 | 23 | 7 | 14 | 0 | 30.02 | 0.00 | 21 | 14 | 73 | 17 | 5 | 10 | 0 | 30.17 | 0.00 | 34 | 24 | 66 | 19 | 5 | 10 |
| 06 | 0 | 29.71 | 0.00 | 20 | 11 | 65 | 21 | 5 | 15 | 0 | 30.04 | 0.00 | 20 | 16 | 83 | 16 | 5 | 10 | 0 | 30.17 | 0.00 | 33 | 24 | 70 | 15 | 3 | 7 |
| 09 | 144 | 29.71 | 0.00 | 22 | 12 | 65 | 21 | 8 | 17 | 276 | 30.08 | 0.00 | 28 | 21 | 73 | 16 | 4 | 12 | 139 | 30.20 | 0.00 | 35 | 20 | 54 | 16 | 7 | 16 |
| 12 | 204 | 29.78 | 0.00 | 19 | 14 | 79 | 24 | 12 | 23 | 814 | 30.08 | 0.00 | 36 | 23 | 60 | 17 | 3 | 16 | 367 | 30.19 | 0.00 | 44 | 26 | 49 | 18 | 4 | 12 |
| 15 | 216 | 29.84 | 0.00 | 21 | 8 | 57 | 24 | 8 | 18 | 643 | 30.07 | 0.00 | 40 | 24 | 51 | 17 | 9 | 15 | 183 | 30.23 | 0.00 | 41 | 30 | 63 | 26 | 3 | 9 |
| 18 | 70 | 29.91 | 0.00 | 23 | 6 | 49 | 23 | 8 | 17 | 70 | 30.07 | 0.00 | 41 | 24 | 50 | 20 | 3 | 9 | 58 | 30.28 | 0.00 | 37 | 29 | 73 | 31 | 1 | 5 |
| 21 | 0 | 29.99 | 0.00 | 19 | 10 | 66 | 19 | 3 | 10 | 0 | 30.12 | 0.00 | 34 | 23 | 63 | 19 | 2 | 6 | 0 | 30.33 | 0.00 | 32 | 24 | 75 | 02 | 0 | 0 |
| MAR 22 | | | | | | | | | MAR 23 | | | | | | | | | MAR 24 | | | | | | | | | |
| 00 | 0 | 30.36 | 0.00 | 30 | 23 | 76 | 01 | 0 | 0 | 0 | 30.09 | 0.00 | 32 | 26 | 79 | 35 | 0 | 0 | 0 | 29.74 | 0.00 | 36 | 35 | 96 | 25 | 0 | 0 |
| 03 | 0 | 30.37 | 0.00 | 27 | 22 | 81 | 01 | 0 | 0 | 0 | 30.01 | 0.00 | 33 | 28 | 81 | 18 | 0 | 3 | 0 | 29.82 | 0.00 | 34 | 32 | 91 | 27 | 7 | 13 |
| 06 | 0 | 30.39 | 0.00 | 23 | 20 | 86 | 01 | 0 | 0 | 0 | 29.89 | 0.00 | 42 | 35 | 76 | 17 | 2 | 7 | 0 | 29.87 | 0.00 | 33 | 28 | 85 | 30 | 3 | 12 |
| 09 | 260 | 30.40 | 0.00 | 28 | 24 | 85 | 01 | 0 | 0 | 23 | 29.86 | 0.00 | 41 | 38 | 89 | 18 | 2 | 10 | 111 | 29.92 | 0.00 | 32 | 26 | 80 | 26 | 4 | 14 |
| 12 | 691 | 30.35 | 0.00 | 40 | 25 | 55 | 07 | 0 | 3 | 56 | 29.73 | 0.00 | 42 | 40 | 92 | 17 | 3 | 10 | 179 | 29.96 | 0.00 | 33 | 25 | 73 | 27 | 2 | 7 |
| 15 | 570 | 30.24 | 0.00 | 45 | 28 | 52 | 26 | 0 | 7 | 72 | 29.63 | 0.00 | 43 | 41 | 94 | 17 | 4 | 9 | 793 | 29.98 | 0.00 | 38 | 25 | 61 | 22 | 3 | 13 |
| 18 | 100 | 30.16 | 0.00 | 43 | 28 | 55 | 27 | 2 | 3 | 11 | 29.62 | 0.00 | 42 | 41 | 96 | 17 | 4 | 11 | 181 | 30.02 | 0.00 | 39 | 27 | 60 | 33 | 2 | 9 |
| 21 | 0 | 30.12 | 0.00 | 35 | 28 | 78 | 26 | 1 | 3 | 0 | 29.70 | 0.00 | 39 | 38 | 96 | 30 | 3 | 11 | 0 | 30.09 | 0.00 | 29 | 23 | 77 | 01 | 0 | 2 |
| MAR 25 | | | | | | | | | MAR 26 | | | | | | | | | MAR 27 | | | | | | | | | |
| 00 | 0 | 30.11 | 0.00 | 25 | 22 | 86 | 01 | 0 | 0 | 0 | 29.62 | 0.00 | 35 | 31 | 86 | 17 | 5 | 14 | 0 | 29.98 | 0.00 | 37 | 30 | 76 | 26 | 3 | 10 |
| 03 | 0 | 30.12 | 0.00 | 23 | 19 | 87 | 01 | 0 | 0 | 0 | 29.60 | 0.00 | 34 | 31 | 90 | 18 | 4 | 7 | 0 | 29.98 | 0.00 | 32 | 27 | 80 | 17 | 1 | 7 |
| 06 | 0 | 30.10 | 0.00 | 23 | 20 | 87 | 35 | 0 | 0 | 0 | 29.63 | 0.00 | 33 | 31 | 94 | 17 | 2 | 5 | 0 | 30.02 | 0.00 | 29 | 26 | 87 | 17 | 0 | 0 |
| 09 | 141 | 30.08 | 0.00 | 28 | 22 | 80 | 08 | 2 | 6 | 176 | 29.65 | 0.00 | 36 | 32 | 83 | 18 | 9 | 16 | 257 | 30.04 | 0.00 | 37 | 30 | 74 | 17 | 0 | 0 |
| 12 | 113 | 29.99 | 0.00 | 36 | 24 | 61 | 15 | 7 | 18 | 90 | 29.70 | 0.00 | 36 | 30 | 78 | 21 | 8 | 19 | 559 | 30.04 | 0.00 | 43 | 30 | 59 | 24 | 5 | 7 |
| 15 | 39 | 29.90 | 0.00 | 34 | 28 | 77 | 12 | 4 | 11 | 86 | 29.75 | 0.00 | 38 | 29 | 71 | 23 | 10 | 17 | 415 | 30.02 | 0.00 | 45 | 29 | 55 | 33 | 3 | 8 |
| 18 | 18 | 29.77 | 0.00 | 34 | 28 | 80 | 15 | 6 | 22 | 44 | 29.84 | 0.00 | 38 | 30 | 73 | 21 | 7 | 14 | 46 | 30.01 | 0.00 | 41 | 31 | 65 | 00 | 1 | 8 |
| 21 | 0 | 29.72 | 0.00 | 33 | 30 | 87 | 15 | 9 | 20 | 0 | 29.92 | 0.00 | 37 | 31 | 78 | 21 | 4 | 9 | 0 | 30.04 | 0.00 | 36 | 29 | 75 | 34 | 0 | 2 |
| MAR 28 | | | | | | | | | MAR 29 | | | | | | | | | MAR 30 | | | | | | | | | |
| 00 | 0 | 30.04 | 0.00 | 34 | 28 | 79 | 34 | 0 | 0 | 0 | 30.10 | 0.00 | 27 | 22 | 82 | 00 | 0 | 0 | 0 | 29.92 | 0.00 | 30 | 23 | 75 | 22 | 5 | 13 |
| 03 | 0 | 30.03 | 0.00 | 31 | 26 | 82 | 34 | 0 | 0 | 0 | 30.10 | 0.00 | 25 | 21 | 82 | 00 | 0 | 0 | 0 | 30.00 | 0.00 | 26 | 19 | 73 | 22 | 6 | 14 |
| 06 | 0 | 30.04 | 0.00 | 30 | 26 | 83 | 34 | 0 | 0 | 0 | 30.09 | 0.00 | 22 | 19 | 89 | 00 | 0 | 0 | 0 | 30.14 | 0.00 | 18 | 10 | 68 | 27 | 9 | 20 |
| 09 | 193 | 30.07 | 0.00 | 33 | 27 | 79 | 28 | 1 | 7 | 318 | 30.10 | 0.00 | 31 | 24 | 73 | 17 | 4 | 14 | 341 | 30.21 | 0.00 | 20 | 10 | 64 | 29 | 9 | 15 |
| 12 | 791 | 30.10 | 0.00 | 37 | 29 | 73 | 26 | 3 | 11 | 679 | 30.04 | 0.00 | 43 | 27 | 54 | 19 | 4 | 16 | 877 | 30.21 | 0.00 | 25 | 12 | 58 | 29 | 5 | 16 |
| 15 | 752 | 30.06 | 0.00 | 40 | 26 | 57 | 00 | 2 | 12 | 392 | 29.93 | 0.00 | 46 | 27 | 47 | 19 | 6 | 17 | 279 | 30.19 | 0.00 | 29 | 10 | 45 | 26 | 6 | 19 |
| 18 | 105 | 30.07 | 0.00 | 36 | 26 | 65 | 32 | 0 | 5 | 79 | 29.83 | 0.00 | 46 | 28 | 49 | 16 | 4 | 15 | 202 | 30.20 | 0.00 | 32 | 13 | 46 | 24 | 4 | 13 |
| 21 | 0 | 30.11 | 0.00 | 29 | 23 | 78 | 00 | 0 | 0 | 0 | 29.84 | 0.00 | 39 | 32 | 76 | 22 | 7 | 16 | 0 | 30.24 | 0.00 | 25 | 13 | 60 | 28 | 0 | 2 |
| MAR 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 00 | 0 | 30.27 | 0.00 | 26 | 16 | 66 | 22 | 4 | 10 | | | | | | | | | | | | | | | | | | |
| 03 | 0 | 30.25 | 0.00 | 23 | 16 | 74 | 19 | 3 | 6 | | | | | | | | | | | | | | | | | | |
| 06 | 0 | 30.26 | 0.00 | 20 | 14 | 77 | 17 | 2 | 7 | | | | | | | | | | | | | | | | | | |
| 09 | 323 | 30.25 | 0.00 | 30 | 18 | 62 | 17 | 7 | 15 | | | | | | | | | | | | | | | | | | |
| 12 | 457 | 30.19 | 0.00 | 38 | 20 | 48 | 12 | 6 | 11 | | | | | | | | | | | | | | | | | | |
| 15 | 81 | 30.08 | 0.00 | 39 | 22 | 52 | 17 | 4 | 11 | | | | | | | | | | | | | | | | | | |
| 18 | 9 | 29.99 | 0.00 | 32 | 31 | 93 | 13 | 0 | 0 | | | | | | | | | | | | | | | | | | |
| 21 | 0 | 29.94 | 0.00 | 33 | 31 | 94 | 17 | 0 | 8 | | | | | | | | | | | | | | | | | | |

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 | 29.948 | 29 | 24 | 80 | 2.4 | 23 | 1.6 |
| 03 | 0 | 29.945 | 28 | 23 | 81 | 2.8 | 24 | 1.9 |
| 06 | 0 | 29.956 | 26 | 21 | 83 | 1.8 | 24 | 1.0 |
| 09 | 178 | 29.979 | 29 | 23 | 78 | 2.7 | 22 | 1.6 |
| 12 | 385 | 29.968 | 34 | 25 | 70 | 3.8 | 23 | 2.5 |
| 15 | 266 | 29.930 | 36 | 25 | 67 | 3.6 | 24 | 2.2 |
| 18 | 40 | 29.929 | 34 | 25 | 72 | 2.5 | 24 | 1.6 |
| 21 | 0 | 29.948 | 30 | 25 | 80 | 2.1 | 23 | 1.5 |

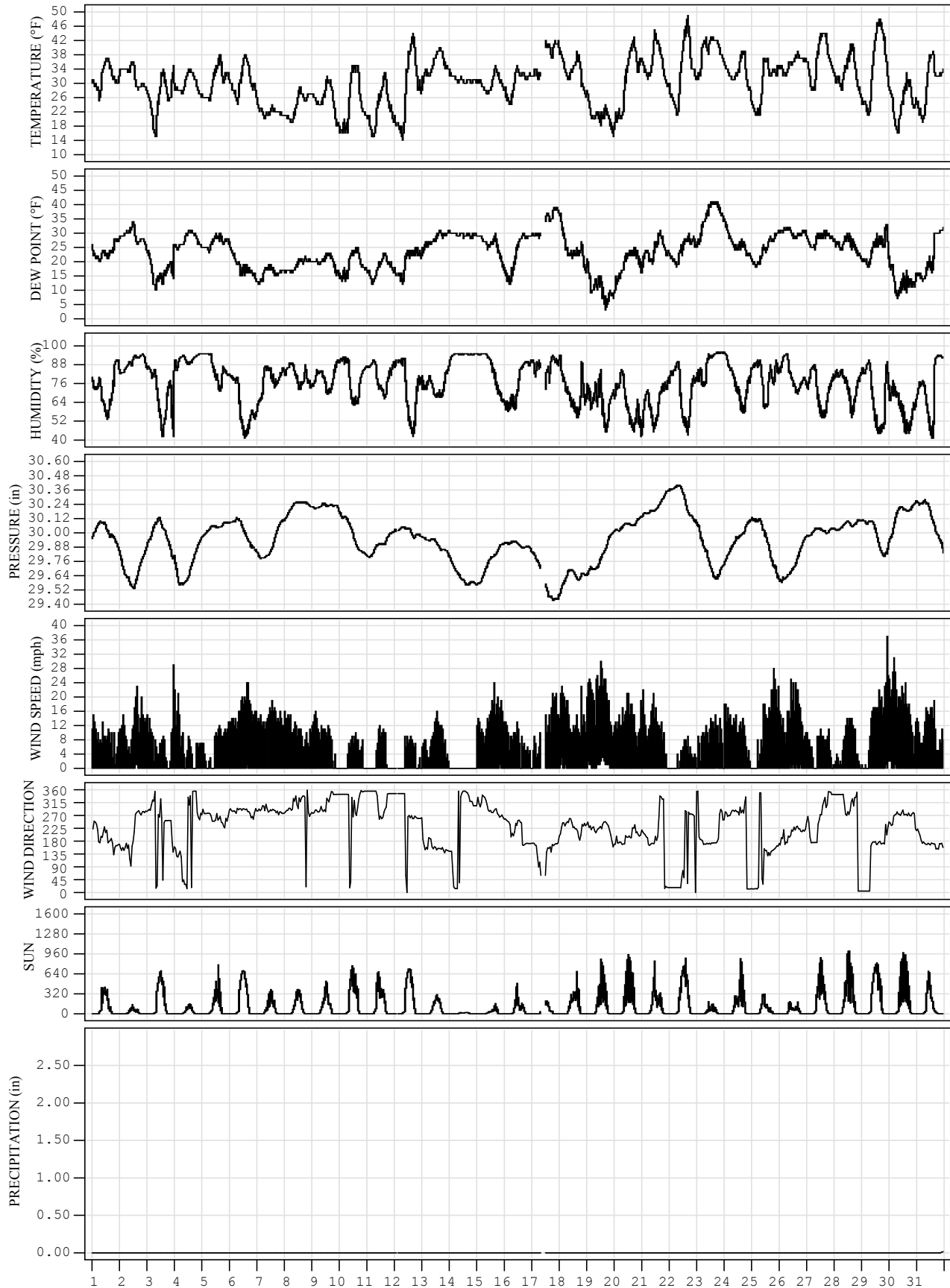
HOURLY PRECIPITATION (Water Equivalent) March 2023: Westford

| Date | A.M. Hour Ending at | | | | | | | | | | | | P.M. Hour Ending at | | | | | | | | | | | | Date |
|------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------------|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
| 01 | | | | | | | | | | | | | | | | | | | | | | | | 01 | |
| 02 | | | | | | | | | | | | | | | | | | | | | | | | | 02 |
| 03 | | | | | | | | | | | | | | | | | | | | | | | | | 03 |
| 04 | | | | | | | | | | | | | | | | | | | | | | | | | 04 |
| 05 | | | | | | | | | | | | | | | | | | | | | | | | | 05 |
| 06 | | | | | | | | | | | | | | | | | | | | | | | | | 06 |
| 07 | | | | | | | | | | | | | | | | | | | | | | | | | 07 |
| 08 | | | | | | | | | | | | | | | | | | | | | | | | | 08 |
| 09 | | | | | | | | | | | | | | | | | | | | | | | | | 09 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | 21 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | 23 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | 24 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | | | | | | | | | 0.01 | | 0.01 | | 31 |
| Sum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | Sum |

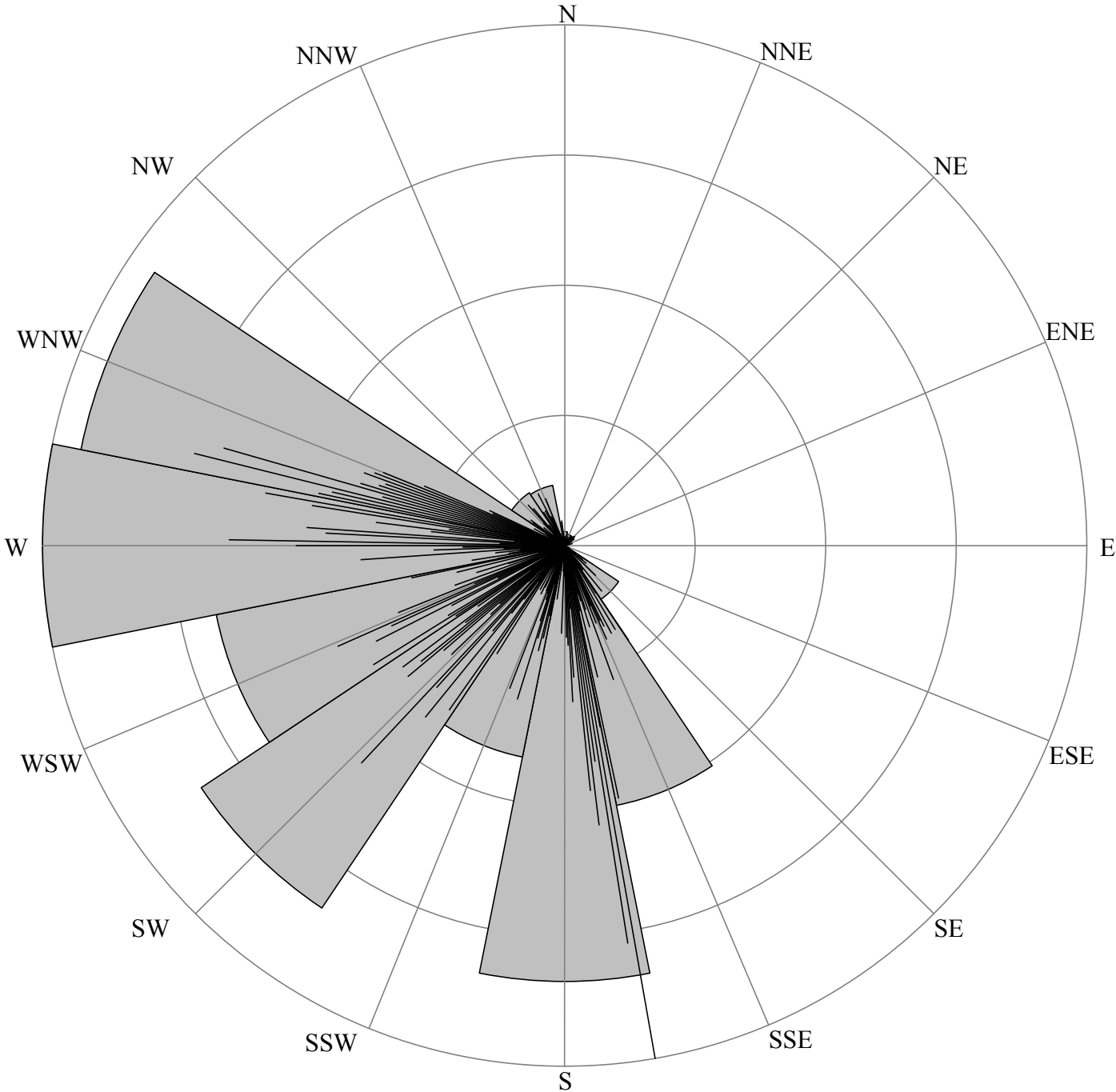
During a frozen precipitation event, hourly precipitation totals may not be recorded. In this case, daily amounts are typically entered in the last column (hour ending at 12 A.M.)

HOUR-BY-HOUR DATA

March 2023: Westford



Wind Rose: March 2023
Westford



Maximum direction of wind: 56.1 miles from 170°
Maximum sector of wind: 348.6 miles from W
1975.2 total miles of wind