

LOCAL CLIMATOLOGICAL DATA

Monthly Summary

February 2005

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

| Date | Temperature | | | | | Humidity | Deg F Days | | Precip Ty | Snow Cvr | Precip | | Pressure | | | Wind | | | | | Sun | | | | | | | | | | |
|-----------------|-------------|---------|-----------------|------|-----------|-----------|----------------|---------------------|----------------|--------------------------------|-------------------|------------------|------------------|-------------------|---|------|------|------|-----|-------|-----|--------|-------|-----|-------|-----|-----|----|----|----|----|
| | Maximum | Minimum | Average | Mean | Dew Point | | Mean | Heating Base 65°F | | | Cooling Base 65°F | Water Equivalent | Ice Pellets Snow | Adj. to Sea Level | | | Avg | Res | Res | Peak | | Minute | | | | | | | | | |
| | | | | | | | | | | | | | | Maximum | Minimum | Mean | | | | Speed | | Dir | Speed | Dir | Speed | Dir | | | | | |
| 1 | 2 | 3 | 4A | 4B | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 1 | 32.8 | 6.0 | 19.4 | 18.4 | 4 | 56 | 46 | 0 | ..... | 8 | 0.00 | 0.0 | 30.52 | 30.35 | 30.426 | 0.5 | 0.0 | 189 | 10 | S | 0 | 0 | | | | | | | | | |
| 2 | 36.3 | 7.4 | 21.8 | 20.5 | 10 | 64 | 44 | 0 | ..... | 8 | 0.00 | 0.0 | 30.58 | 30.38 | 30.498 | 0.3 | 0.2 | 353 | 6 | ENE | 0 | 0 | | | | | | | | | |
| 3 | 38.9 | 19.7 | 29.3 | 28.8 | 6 | 39 | 36 | 0 | ..... | 8 | 0.00 | 0.0 | 30.38 | 30.18 | 30.264 | 2.6 | 2.4 | 177 | 16 | SSE | 0 | 0 | | | | | | | | | |
| 4 | 37.9 | 20.5 | 29.2 | 28.3 | 12 | 52 | 36 | 0 | ..... | 8 | 0.00 | 0.0 | 30.33 | 30.22 | 30.280 | 0.5 | 0.4 | 320 | 9 | WNW | 0 | 0 | | | | | | | | | |
| 5 | 40.3 | 20.6 | 30.4 | 29.4 | 19 | 67 | 35 | 0 | ..... | 7 | 0.00 | 0.0 | 30.49 | 30.31 | 30.420 | 0.5 | 0.4 | 13 | 10 | N | 0 | 0 | | | | | | | | | |
| 6 | 51.6* | 21.0 | 36.3 | 35.5 | 22 | 63 | 29 | 0 | ..... | 5 | 0.00 | 0.0 | 30.59 | 30.37 | 30.491 | 2.1 | 2.0 | 186 | 16 | S | 0 | 0 | | | | | | | | | |
| 7 | 49.2 | 37.9 | 43.6* | 43.4 | 16 | 34 | 22 | 0 | ..... | 3 | 0.00 | 0.0 | 30.37 | 30.03 | 30.217 | 5.3 | 4.9 | 188 | 21 | S | 0 | 0 | | | | | | | | | |
| 8 | 42.2 | 35.5 | 38.9 | 38.3 | 28 | 71 | 27 | 0 | ..... | 2 | 0.25 | 0.0 | 30.03 | 29.88 | 29.939 | 4.4 | 4.3 | 185 | 16 | S | 0 | 0 | | | | | | | | | |
| 9 | 36.2 | 27.9 | 32.1 | 30.9 | 30 | 95 | 33 | 0 | ..... | 2 | 0.06 | 0.6 | 29.95 | 29.74 | 29.889 | 0.6 | 0.5 | 359 | 10 | N | 0 | 0 | | | | | | | | | |
| 10 | 27.9 | 17.3 | 22.6 | 22.7 | 21 | 92 | 43 | 0 | ..... | 11 | 1.06 | 9.9 | 29.74 | 29.51 | 29.591 | 2.4 | 2.2 | 322 | 18 | N | 0 | 0 | | | | | | | | | |
| 11 | 27.2 | 11.9 | 19.6 | 18.8 | 6 | 57 | 46 | 0 | ..... | 11 | T | T | 29.61 | 29.48 | 29.555 | 5.6 | 5.3 | 312 | 25 | WNW | 0 | 0 | | | | | | | | | |
| 12 | 29.0 | 18.9 | 23.9 | 24.1 | 18 | 77 | 42 | 0 | ..... | 11 | 0.05 | 1.0 | 29.70 | 29.49 | 29.543 | 3.3 | 2.2 | 244 | 17 | WNW | 0 | 0 | | | | | | | | | |
| 13 | 25.3 | 2.6 | 13.9 | 14.2 | 7 | 75 | 52 | 0 | ..... | 12 | 0.22 | 4.3 | 30.42 | 29.70 | 30.139 | 2.4 | 2.2 | 331 | 19 | NW | 0 | 0 | | | | | | | | | |
| 14 | 34.3 | 0.7 | 17.5 | 19.3 | 11 | 70 | 48 | 0 | ..... | 10 | 0.01 | 0.1 | 30.41 | 29.83 | 30.199 | 5.8 | 5.7 | 161 | 31 | SSE | 0 | 0 | | | | | | | | | |
| 15 | 41.3 | 32.8 | 37.0 | 37.5 | 32 | 81 | 28 | 0 | ..... | 6 | 0.11 | T | 29.92 | 29.79 | 29.872 | 6.5 | 6.1 | 186 | 26 | SSW | 0 | 0 | | | | | | | | | |
| 16 | 44.9 | 21.9 | 33.4 | 35.0 | 30 | 84 | 32 | 0 | ..... | 9 | 0.55 | 5.2 | 29.84 | 29.52 | 29.656 | 4.3 | 2.2 | 246 | 21 | W | 0 | 0 | | | | | | | | | |
| 17 | 28.2 | 7.7 | 18.0 | 18.5 | 12 | 77 | 48 | 0 | ..... | 8 | 0.00 | 0.0 | 29.84 | 29.74 | 29.777 | 0.9 | 0.8 | 311 | 16 | NW | 0 | 0 | | | | | | | | | |
| 18 | 19.2 | 1.7 | 10.5 | 12.5 | 7 | 77 | 55 | 0 | ..... | 9 | 0.20 | 2.0 | 30.14 | 29.73 | 29.892 | 3.2 | 2.0 | 274 | 19 | WSW | 0 | 0 | | | | | | | | | |
| 19 | 18.0 | -3.3 | 7.4 | 8.3 | -2 | 62 | 58 | 0 | ..... | 9 | 0.09 | 0.9 | 30.24 | 30.10 | 30.164 | 4.1 | 3.6 | 194 | 25 | SSW | 0 | 0 | | | | | | | | | |
| 20 | 13.8 | -3.5* | 5.2* | 5.4 | -10 | 49 | 60 | 0 | ..... | 9 | 0.00 | 0.0 | 30.49 | 30.22 | 30.397 | 1.2 | 1.0 | 332 | 13 | NW | 0 | 0 | | | | | | | | | |
| 21 | 24.1 | 4.8 | 14.5 | 17.5 | 10 | 72 | 51 | 0 | ..... | 9 | 0.16 | 1.9 | 30.27 | 29.94 | 30.051 | 6.1 | 5.8 | 160 | 28 | SSE | 0 | 0 | | | | | | | | | |
| 22 | 32.2 | 23.3 | 27.8 | 26.9 | 22 | 82 | 38 | 0 | ..... | 10 | 0.12 | 1.4 | 30.05 | 29.95 | 29.991 | 1.3 | 1.0 | 197 | 12 | S | 0 | 0 | | | | | | | | | |
| 23 | 25.0 | 6.7 | 15.8 | 14.6 | 7 | 73 | 50 | 0 | ..... | 10 | 0.10 | 1.0 | 30.27 | 29.95 | 30.112 | 2.8 | 2.7 | 323 | 21 | NW | 0 | 0 | | | | | | | | | |
| 24 | 18.6 | -1.2 | 8.7 | 9.7 | -1 | 62 | 57 | 0 | ..... | 10 | 0.00 | 0.0 | 30.36 | 30.16 | 30.283 | 0.8 | 0.7 | 323 | 11 | NW | 0 | 0 | | | | | | | | | |
| 25 | 21.6 | 2.8 | 12.2 | 11.5 | 2 | 67 | 53 | 0 | ..... | 10 | 0.01 | 0.1 | 30.16 | 30.05 | 30.111 | 0.8 | 0.7 | 310 | 13 | WNW | 0 | 0 | | | | | | | | | |
| 26 | 24.1 | -0.2 | 12.0 | 12.3 | -2 | 56 | 54 | 0 | ..... | 9 | 0.00 | 0.0 | 30.13 | 30.05 | 30.102 | 1.2 | 0.7 | 255 | 11 | W | 0 | 0 | | | | | | | | | |
| 27 | 22.9 | 7.2 | 15.0 | 14.4 | -4 | 45 | 50 | 0 | ..... | 9 | 0.00 | 0.0 | 30.23 | 30.12 | 30.171 | 4.0 | 3.8 | 305 | 19 | WNW | 0 | 0 | | | | | | | | | |
| 28 | 31.2 | 6.0 | 18.6 | 20.1 | -2 | 40 | 47 | 0 | ..... | 9 | 0.00 | 0.0 | 30.14 | 29.62 | 29.938 | 0.6 | 0.2 | 24 | 14 | SSE | 0 | 0 | | | | | | | | | |
| Sum | Sum | ----- | ----- | --- | ---- | Ttl | Ttl | | For the month: | | | | | | | | | | | | | | | | | | --- | | | | |
| 874 | 355 | | | | | 1220 | 0 | Number of Days | 2.99 | 28.4 | 30.59 | 29.48 | 30.070 | 2.6 | 1.0 | 226 | 31 | SSE | 0 | 0 | | | | | | | | | | | |
| Avg | Avg | Avg | Mean | Avg | Avg | ---- | ---- | Precip | Season Ttl | | Date | Date | ----- | ---- | ---- | --- | Date | Date | Avg | | | | | | | | | | | | |
| 31.2 | 12.7 | 21.9 | 22.0 | 11 | 65.7 | ---- | ---- | ≥.01 inch | 14 | 6.24 | 86.8 | 6 | 11 | ----- | ---- | ---- | --- | 14 | 1+ | | | | | | | | | | | | |
| Number of Days | | | | | | | Season to Date | Snow, Ice ≥1.0 inch | 8 | Greatest in 24 Hours and Dates | | | | | Greatest Depth on Ground of Snow, Ice Pellets or Ice and Date | | | | | | | | | | | | | | | | |
| Max Temperature | | | Min Temperature | | | 3235 | 0 | Thunder | 0 | Precipitation | | Snow, Ice Plts | | | | | | | | | | | | | | | | | | | |
| ≥ 90°F | < 32°F | < 32°F | < 0°F | ---- | ---- | Heavy Fog | 0 | 0.00 | - | 9.9 | 10 | | | 12 | | 13 | | | | | | | | | | | | | | | |
| 0 | 16 | 25 | 4 | ---- | ---- | Clear | 14 | Partly Cloudy | 5 | Cloudy | 9 | | | | | | | | | | | | | | | | | | | | |

NOTES:
 Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.
 Data in column 4A are (MAX+MIN) ÷ 2, whereas columns 4B, 5, 6, 15, 16, 23 are means via continuous observations for 24 hours.
 Column 5: Dew point is calculated from temperature and humidity and is continuously averaged for 24 hours.
 Data in columns 9, 10, 12 are entered manually by the station observer.
 Columns 17-18: Resultant wind is calculated by the vector sum of continuous wind observations.
 Column 23: Sunshine index is measured in Watts/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
February 2005: Westford**

| Hour | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | 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 |
| FEB 01 | | | | | | | | | FEB 02 | | | | | | | | | FEB 03 | | | | | | | | | |
| 01 | | 30.36 | 0.00 | 11 | 2 | 67 | 00 | 0 | 0 | | 30.52 | 0.00 | 12 | 5 | 71 | 00 | 0 | 0 | | 30.36 | 0.00 | 20 | 7 | 56 | 15 | 1 | 3 |
| 04 | | 30.36 | 0.00 | 10 | 3 | 73 | 00 | 0 | 0 | | 30.52 | 0.00 | 12 | 7 | 79 | 00 | 0 | 0 | | 30.31 | 0.00 | 25 | 2 | 36 | 18 | 4 | 7 |
| 07 | | 30.42 | 0.00 | 10 | 2 | 68 | 00 | 0 | 0 | | 30.56 | 0.00 | 10 | 6 | 84 | 00 | 0 | 0 | | 30.30 | 0.00 | 24 | 1 | 36 | 15 | 6 | 12 |
| 10 | | 30.43 | 0.00 | 23 | 4 | 45 | 00 | 0 | 0 | | 30.56 | 0.00 | 22 | 10 | 59 | 00 | 0 | 1 | | 30.31 | 0.00 | 28 | 0 | 29 | 18 | 3 | 7 |
| 13 | | 30.41 | 0.00 | 30 | 4 | 32 | 00 | 1 | 5 | | 30.50 | 0.00 | 33 | 14 | 44 | 00 | 0 | 1 | | 30.22 | 0.00 | 36 | 0 | 21 | 18 | 7 | 13 |
| 16 | | 30.41 | 0.00 | 33 | 1 | 26 | 00 | 0 | 0 | | 30.45 | 0.00 | 33 | 13 | 43 | 00 | 0 | 2 | | 30.18 | 0.00 | 37 | 7 | 28 | 20 | 3 | 7 |
| 19 | | 30.49 | 0.00 | 20 | 7 | 56 | 00 | 0 | 0 | | 30.47 | 0.00 | 23 | 12 | 62 | 00 | 0 | 1 | | 30.20 | 0.00 | 30 | 15 | 55 | 00 | 0 | 0 |
| 22 | | 30.51 | 0.00 | 18 | 7 | 64 | 00 | 0 | 0 | | 30.42 | 0.00 | 21 | 11 | 64 | 18 | 1 | 2 | | 30.24 | 0.00 | 26 | 13 | 58 | 00 | 0 | 0 |
| FEB 04 | | | | | | | | | FEB 05 | | | | | | | | | FEB 06 | | | | | | | | | |
| 01 | | 30.22 | 0.00 | 27 | 16 | 62 | 00 | 0 | 0 | | 30.31 | 0.00 | 21 | 11 | 64 | 00 | 0 | 0 | | 30.48 | 0.00 | 24 | 21 | 88 | 00 | 0 | 0 |
| 04 | | 30.24 | 0.00 | 23 | 11 | 60 | 00 | 0 | 0 | | 30.37 | 0.00 | 23 | 15 | 70 | 00 | 0 | 0 | | 30.51 | 0.00 | 24 | 21 | 88 | 00 | 0 | 2 |
| 07 | | 30.30 | 0.00 | 22 | 11 | 62 | 00 | 0 | 0 | | 30.41 | 0.00 | 23 | 16 | 74 | 00 | 0 | 0 | | 30.56 | 0.00 | 22 | 20 | 92 | 00 | 0 | 0 |
| 10 | | 30.32 | 0.00 | 30 | 9 | 42 | 33 | 0 | 2 | | 30.45 | 0.00 | 33 | 20 | 57 | 04 | 1 | 3 | | 30.55 | 0.00 | 39 | 23 | 53 | 18 | 5 | 10 |
| 13 | | 30.27 | 0.00 | 36 | 12 | 36 | 29 | 4 | 8 | | 30.42 | 0.00 | 40 | 23 | 52 | 04 | 2 | 7 | | 30.48 | 0.00 | 48 | 24 | 38 | 18 | 3 | 6 |
| 16 | | 30.26 | 0.00 | 37 | 12 | 35 | 00 | 1 | 4 | | 30.42 | 0.00 | 40 | 25 | 54 | 00 | 0 | 3 | | 30.47 | 0.00 | 50 | 19 | 29 | 20 | 3 | 7 |
| 19 | | 30.32 | 0.00 | 27 | 14 | 58 | 00 | 0 | 0 | | 30.46 | 0.00 | 31 | 23 | 74 | 00 | 0 | 0 | | 30.46 | 0.00 | 39 | 26 | 60 | 00 | 0 | 0 |
| 22 | | 30.31 | 0.00 | 25 | 12 | 59 | 00 | 0 | 0 | | 30.49 | 0.00 | 27 | 22 | 82 | 00 | 0 | 0 | | 30.41 | 0.00 | 42 | 23 | 46 | 18 | 5 | 9 |
| FEB 07 | | | | | | | | | FEB 08 | | | | | | | | | FEB 09 | | | | | | | | | |
| 01 | | 30.35 | 0.00 | 43 | 22 | 43 | 18 | 7 | 13 | | 30.02 | 0.00 | 42 | 13 | 31 | 18 | 4 | 7 | | 29.90 | 0.00 | 36 | 35 | 97 | 00 | 0 | 0 |
| 04 | | 30.33 | 0.00 | 41 | 22 | 46 | 18 | 5 | 11 | | 29.98 | 0.00 | 42 | 14 | 32 | 18 | 5 | 10 | | 29.91 | 0.00 | 36 | 35 | 97 | 00 | 0 | 0 |
| 07 | | 30.32 | 0.00 | 40 | 18 | 42 | 18 | 5 | 10 | | 29.98 | 0.00 | 40 | 20 | 44 | 18 | 8 | 16 | | 29.92 | 0.00 | 31 | 31 | 97 | 00 | 0 | 0 |
| 10 | | 30.26 | 0.00 | 45 | 11 | 24 | 20 | 9 | 15 | | 29.97 | 0.00 | 39 | 28 | 66 | 18 | 4 | 8 | | 29.94 | 0.00 | 31 | 29 | 94 | 00 | 1 | 6 |
| 13 | | 30.19 | 0.00 | 49 | 9 | 19 | 20 | 6 | 14 | | 29.89 | 0.00 | 39 | 37 | 95 | 20 | 3 | 7 | | 29.93 | 0.00 | 29 | 27 | 90 | 00 | 1 | 4 |
| 16 | | 30.16 | 0.00 | 46 | 13 | 25 | 24 | 3 | 7 | | 29.88 | 0.00 | 37 | 34 | 89 | 20 | 5 | 12 | | 29.90 | 0.00 | 29 | 27 | 93 | 00 | 1 | 4 |
| 19 | | 30.10 | 0.00 | 43 | 16 | 33 | 18 | 2 | 5 | | 29.90 | 0.00 | 36 | 35 | 97 | 18 | 4 | 7 | | 29.87 | 0.00 | 28 | 27 | 96 | 00 | 0 | 2 |
| 22 | | 30.08 | 0.00 | 43 | 15 | 31 | 18 | 2 | 5 | | 29.90 | 0.00 | 36 | 35 | 97 | 18 | 3 | 5 | | 29.79 | 0.00 | 29 | 28 | 96 | 00 | 0 | 0 |
| FEB 10 | | | | | | | | | FEB 11 | | | | | | | | | FEB 12 | | | | | | | | | |
| 01 | | 29.72 | 0.00 | 28 | 27 | 96 | 00 | 1 | 3 | | 29.60 | 0.00 | 16 | 12 | 82 | 33 | 4 | 10 | | 29.49 | 0.00 | 21 | 8 | 59 | 29 | 5 | 10 |
| 04 | | 29.63 | 0.00 | 27 | 26 | 95 | 00 | 0 | 0 | | 29.61 | 0.00 | 15 | 8 | 72 | 33 | 4 | 8 | | 29.49 | 0.00 | 21 | 13 | 72 | 24 | 4 | 11 |
| 07 | | 29.59 | 0.00 | 24 | 23 | 93 | 00 | 0 | 0 | | 29.60 | 0.00 | 13 | 3 | 63 | 31 | 7 | 16 | | 29.51 | 0.00 | 20 | 15 | 82 | 18 | 2 | 6 |
| 10 | | 29.57 | 0.00 | 24 | 23 | 95 | 29 | 2 | 6 | | 29.58 | 0.00 | 16 | 2 | 55 | 31 | 7 | 13 | | 29.50 | 0.00 | 23 | 18 | 80 | 18 | 6 | 10 |
| 13 | | 29.52 | 0.00 | 23 | 20 | 90 | 29 | 4 | 10 | | 29.50 | 0.00 | 25 | 6 | 44 | 31 | 9 | 19 | | 29.50 | 0.00 | 27 | 22 | 81 | 20 | 4 | 7 |
| 16 | | 29.54 | 0.00 | 20 | 18 | 91 | 31 | 6 | 14 | | 29.49 | 0.00 | 27 | 7 | 43 | 31 | 10 | 22 | | 29.55 | 0.00 | 29 | 19 | 67 | 27 | 4 | 8 |
| 19 | | 29.58 | 0.00 | 19 | 17 | 90 | 33 | 3 | 7 | | 29.55 | 0.00 | 21 | 5 | 48 | 29 | 6 | 12 | | 29.61 | 0.00 | 27 | 19 | 70 | 00 | 0 | 0 |
| 22 | | 29.59 | 0.00 | 18 | 16 | 89 | 00 | 3 | 8 | | 29.52 | 0.00 | 19 | 4 | 51 | 27 | 1 | 6 | | 29.66 | 0.00 | 26 | 23 | 88 | 00 | 0 | 0 |
| FEB 13 | | | | | | | | | FEB 14 | | | | | | | | | FEB 15 | | | | | | | | | |
| 01 | | 29.74 | 0.00 | 24 | 22 | 93 | 31 | 2 | 5 | | 30.39 | 0.00 | 3 | -2 | 81 | 00 | 0 | 0 | | 29.82 | 0.00 | 33 | 29 | 85 | 15 | 11 | 21 |
| 04 | | 29.86 | 0.00 | 19 | 17 | 90 | 31 | 8 | 14 | | 30.38 | 0.00 | 2 | -2 | 81 | 00 | 0 | 0 | | 29.79 | 0.00 | 35 | 32 | 89 | 15 | 6 | 12 |
| 07 | | 30.03 | 0.00 | 13 | 9 | 84 | 33 | 2 | 7 | | 30.36 | 0.00 | 2 | -2 | 81 | 00 | 0 | 0 | | 29.85 | 0.00 | 35 | 34 | 94 | 20 | 3 | 8 |
| 10 | | 30.16 | 0.00 | 12 | 7 | 80 | 31 | 4 | 8 | | 30.30 | 0.00 | 20 | 5 | 53 | 18 | 6 | 12 | | 29.90 | 0.00 | 38 | 33 | 83 | 22 | 3 | 6 |
| 13 | | 30.19 | 0.00 | 16 | 3 | 58 | 31 | 5 | 7 | | 30.20 | 0.00 | 27 | 11 | 50 | 15 | 11 | 24 | | 29.91 | 0.00 | 40 | 32 | 74 | 20 | 7 | 14 |
| 16 | | 30.27 | 0.00 | 18 | 3 | 52 | 33 | 1 | 3 | | 30.11 | 0.00 | 29 | 18 | 62 | 15 | 13 | 22 | | 29.90 | 0.00 | 40 | 31 | 69 | 18 | 9 | 14 |
| 19 | | 30.36 | 0.00 | 7 | 1 | 76 | 02 | 0 | 2 | | 30.04 | 0.00 | 30 | 26 | 86 | 15 | 9 | 16 | | 29.92 | 0.00 | 39 | 31 | 74 | 18 | 8 | 13 |
| 22 | | 30.40 | 0.00 | 6 | 1 | 79 | 04 | 0 | 2 | | 29.91 | 0.00 | 33 | 26 | 76 | 15 | 12 | 24 | | 29.89 | 0.00 | 39 | 31 | 73 | 18 | 4 | 8 |
| FEB 16 | | | | | | | | | FEB 17 | | | | | | | | | FEB 18 | | | | | | | | | |
| 01 | | 29.82 | 0.00 | 41 | 33 | 73 | 18 | 3 | 6 | | 29.76 | 0.00 | 20 | 17 | 89 | 29 | 7 | 12 | | 29.75 | 0.00 | 16 | 13 | 87 | 18 | 3 | 6 |
| 04 | | 29.74 | 0.00 | 41 | 32 | 71 | 18 | 6 | 12 | | 29.77 | 0.00 | 15 | 11 | 84 | 06 | 1 | 5 | | 29.73 | 0.00 | 16 | 13 | 89 | 18 | 2 | 6 |
| 07 | | 29.62 | 0.00 | 40 | 32 | 71 | 18 | 4 | 7 | | 29.81 | 0.00 | 11 | 8 | 87 | 00 | 0 | 0 | | 29.79 | 0.00 | 17 | 12 | 80 | 24 | 5 | 12 |
| 10 | | 29.54 | 0.00 | 45 | 34 | 67 | 20 | 5 | 11 | | 29.82 | 0.00 | 22 | 17 | 78 | 00 | 0 | 1 | | 29.84 | 0.00 | 16 | 10 | 76 | 27 | 7 | 13 |
| 13 | | 29.54 | 0.00 | 32 | 31 | 97 | 33 | 3 | 11 | | 29.75 | 0.00 | 26 | 14 | 59 | 29 | 1 | 5 | | 29.84 | 0.00 | 18 | 11 | 76 | 31 | 3 | 7 |
| 16 | | 29.60 | 0.00 | 31 | 31 | 99 | 29 | 4 | 7 | | 29.74 | 0.00 | 26 | 11 | 51 | 00 | 1 | 5 | | 29.94 | 0.00 | 11 | 2 | 64 | 31 | 3 | 10 |
| 19 | | 29.68 | 0.00 | 30 | 29 | 97 | 29 | 3 | 8 | | 29.79 | 0.00 | 18 | 13 | 82 | 00 | 0 | 0 | | 30.06 | 0.00 | 5 | -3 | 69 | 31 | 0 | 3 |
| 22 | | 29.72 | 0.00 | 26 | 25 | 95 | 31 | 3 | 7 | | 29.76 | 0.00 | 14 | 11 | 86 | 00 | 0 | 0 | | 30.13 | 0.00 | 3 | -4 | 74 | 31 | 2 | 5 |

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 | 0.01 | 0.01 |
| Ended: Date | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Ended: Time | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 | 1015 |

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
February 2005: Westford**

| Hour | Sunshine | Pressure | Rainfall rate | Temperature | Dew Point | Humidity | 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 |
| FEB 19 | | | | | | | | | FEB 20 | | | | | | | | | FEB 21 | | | | | | | | | |
| 01 | | 30.14 | 0.00 | -1 | -8 | 70 | 00 | 0 | 0 | 30.27 | 0.00 | 10 | -1 | 60 | 29 | 2 | 7 | 30.25 | 0.00 | 6 | -6 | 56 | 04 | 1 | 3 | | |
| 04 | | 30.18 | 0.00 | -3 | -10 | 70 | 20 | 1 | 2 | 30.36 | 0.00 | 4 | -8 | 57 | 31 | 2 | 7 | 30.16 | 0.00 | 13 | 2 | 59 | 15 | 3 | 7 | | |
| 07 | | 30.21 | 0.00 | -2 | -10 | 68 | 20 | 1 | 3 | 30.43 | 0.00 | -3 | -13 | 61 | 00 | 0 | 0 | 30.14 | 0.00 | 14 | 9 | 80 | 15 | 9 | 18 | | |
| 10 | | 30.22 | 0.00 | 6 | -7 | 55 | 15 | 6 | 11 | 30.48 | 0.00 | 6 | -14 | 39 | 00 | 2 | 5 | 30.06 | 0.00 | 18 | 12 | 79 | 15 | 8 | 16 | | |
| 13 | | 30.17 | 0.00 | 14 | -2 | 49 | 18 | 7 | 14 | 30.45 | 0.00 | 9 | -13 | 36 | 29 | 3 | 10 | 29.98 | 0.00 | 20 | 11 | 68 | 15 | 8 | 17 | | |
| 16 | | 30.10 | 0.00 | 18 | 1 | 47 | 20 | 9 | 14 | 30.41 | 0.00 | 13 | -14 | 28 | 33 | 1 | 3 | 29.94 | 0.00 | 21 | 14 | 72 | 15 | 8 | 18 | | |
| 19 | | 30.13 | 0.00 | 17 | 5 | 59 | 20 | 7 | 14 | 30.41 | 0.00 | 4 | -9 | 54 | 00 | 0 | 0 | 29.96 | 0.00 | 23 | 17 | 78 | 18 | 4 | 7 | | |
| 22 | | 30.15 | 0.00 | 16 | 13 | 86 | 24 | 1 | 3 | 30.36 | 0.00 | 3 | -9 | 57 | 00 | 0 | 0 | 29.95 | 0.00 | 24 | 18 | 79 | 18 | 5 | 11 | | |
| FEB 22 | | | | | | | | | FEB 23 | | | | | | | | | FEB 24 | | | | | | | | | |
| 01 | | 29.95 | 0.00 | 24 | 19 | 81 | 18 | 4 | 10 | 29.96 | 0.00 | 25 | 22 | 90 | 00 | 2 | 7 | 30.28 | 0.00 | 9 | 2 | 73 | 00 | 0 | 1 | | |
| 04 | | 29.98 | 0.00 | 24 | 21 | 89 | 18 | 4 | 8 | 29.99 | 0.00 | 20 | 18 | 90 | 31 | 2 | 5 | 30.31 | 0.00 | 5 | -2 | 75 | 00 | 0 | 0 | | |
| 07 | | 30.03 | 0.00 | 24 | 22 | 92 | 29 | 0 | 2 | 30.07 | 0.00 | 13 | 8 | 81 | 31 | 3 | 7 | 30.35 | 0.00 | -0 | -5 | 80 | 00 | 0 | 1 | | |
| 10 | | 30.04 | 0.00 | 26 | 22 | 86 | 00 | 0 | 0 | 30.11 | 0.00 | 15 | 7 | 69 | 31 | 2 | 7 | 30.35 | 0.00 | 14 | -2 | 48 | 00 | 1 | 6 | | |
| 13 | | 30.00 | 0.00 | 31 | 21 | 66 | 24 | 3 | 6 | 30.12 | 0.00 | 16 | 3 | 57 | 00 | 4 | 10 | 30.28 | 0.00 | 18 | -0 | 43 | 31 | 2 | 6 | | |
| 16 | | 29.98 | 0.00 | 30 | 21 | 67 | 20 | 1 | 5 | 30.14 | 0.00 | 16 | 4 | 58 | 33 | 3 | 10 | 30.27 | 0.00 | 14 | -3 | 46 | 31 | 2 | 7 | | |
| 19 | | 29.99 | 0.00 | 27 | 24 | 89 | 00 | 0 | 0 | 30.22 | 0.00 | 9 | 2 | 73 | 04 | 0 | 2 | 30.23 | 0.00 | 10 | -2 | 57 | 00 | 0 | 0 | | |
| 22 | | 29.97 | 0.00 | 26 | 24 | 92 | 31 | 2 | 5 | 30.25 | 0.00 | 9 | 1 | 70 | 29 | 1 | 5 | 30.21 | 0.00 | 9 | -1 | 63 | 00 | 0 | 1 | | |
| FEB 25 | | | | | | | | | FEB 26 | | | | | | | | | FEB 27 | | | | | | | | | |
| 01 | | 30.15 | 0.00 | 9 | 1 | 70 | 00 | 0 | 0 | 30.11 | 0.00 | 5 | -0 | 79 | 00 | 0 | 0 | 30.13 | 0.00 | 13 | -1 | 53 | 31 | 2 | 7 | | |
| 04 | | 30.10 | 0.00 | 8 | 3 | 79 | 00 | 0 | 0 | 30.10 | 0.00 | 2 | -4 | 73 | 00 | 0 | 0 | 30.16 | 0.00 | 11 | -1 | 59 | 31 | 2 | 6 | | |
| 07 | | 30.14 | 0.00 | 5 | 1 | 83 | 00 | 0 | 0 | 30.12 | 0.00 | 2 | -4 | 77 | 00 | 0 | 0 | 30.22 | 0.00 | 10 | -3 | 56 | 29 | 6 | 11 | | |
| 10 | | 30.11 | 0.00 | 17 | 8 | 66 | 33 | 1 | 3 | 30.11 | 0.00 | 17 | -1 | 45 | 20 | 2 | 5 | 30.22 | 0.00 | 14 | -5 | 41 | 29 | 9 | 15 | | |
| 13 | | 30.06 | 0.00 | 19 | 7 | 60 | 31 | 5 | 9 | 30.05 | 0.00 | 23 | -2 | 33 | 27 | 1 | 5 | 30.17 | 0.00 | 20 | -4 | 34 | 33 | 6 | 14 | | |
| 16 | | 30.07 | 0.00 | 19 | 1 | 44 | 31 | 1 | 4 | 30.07 | 0.00 | 21 | -1 | 38 | 31 | 3 | 7 | 30.13 | 0.00 | 22 | -6 | 28 | 31 | 4 | 9 | | |
| 19 | | 30.13 | 0.00 | 11 | 1 | 62 | 00 | 0 | 0 | 30.13 | 0.00 | 12 | -2 | 52 | 00 | 0 | 0 | 30.19 | 0.00 | 14 | -7 | 37 | 31 | 0 | 1 | | |
| 22 | | 30.13 | 0.00 | 6 | -2 | 69 | 00 | 0 | 0 | 30.12 | 0.00 | 14 | -1 | 52 | 20 | 2 | 5 | 30.15 | 0.00 | 9 | -5 | 54 | 00 | 0 | 0 | | |
| FEB 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | 30.14 | 0.00 | 9 | -5 | 52 | 27 | 0 | 2 | | | | | | | | | | | | | | | | | | |
| 04 | | 30.08 | 0.00 | 8 | -4 | 57 | 00 | 0 | 0 | | | | | | | | | | | | | | | | | | |
| 07 | | 30.07 | 0.00 | 9 | -3 | 57 | 00 | 0 | 0 | | | | | | | | | | | | | | | | | | |
| 10 | | 30.03 | 0.00 | 18 | -3 | 39 | 04 | 1 | 5 | | | | | | | | | | | | | | | | | | |
| 13 | | 29.93 | 0.00 | 29 | 1 | 29 | 29 | 2 | 5 | | | | | | | | | | | | | | | | | | |
| 16 | | 29.84 | 0.00 | 31 | -5 | 21 | 04 | 1 | 3 | | | | | | | | | | | | | | | | | | |
| 19 | | 29.79 | 0.00 | 28 | -1 | 28 | 18 | 1 | 3 | | | | | | | | | | | | | | | | | | |
| 22 | | 29.71 | 0.00 | 27 | 6 | 40 | 15 | 0 | 3 | | | | | | | | | | | | | | | | | | |

WEATHER NOTES

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

SUMMARY BY HOUR

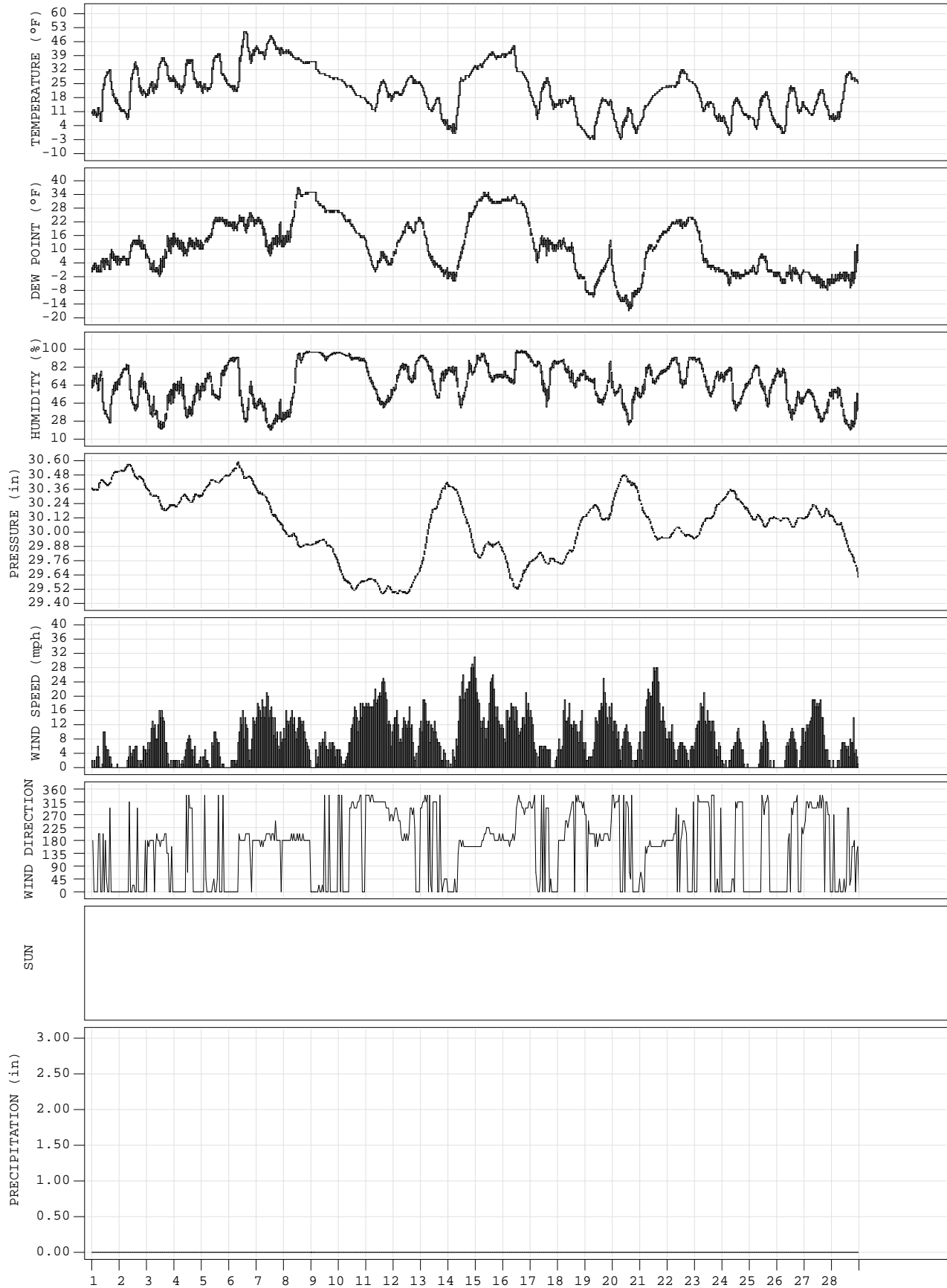
| Hour | Averages | | | | | | Resultant Wind | |
|------|----------|----------|-------------|-----------|----------|------------|----------------|-------|
| | Sunshine | Pressure | Temperature | Dew Point | Humidity | Wind Speed | Direction | Speed |
| 01 | | 30.071 | 20 | 11 | 72 | 2.1 | 22 | 0.7 |
| 04 | | 30.071 | 19 | 10 | 73 | 2.1 | 21 | 0.9 |
| 07 | | 30.097 | 17 | 9 | 74 | 2.2 | 21 | 1.1 |
| 10 | | 30.098 | 23 | 11 | 61 | 3.4 | 22 | 1.6 |
| 13 | | 30.053 | 28 | 11 | 55 | 4.1 | 25 | 1.4 |
| 16 | | 30.044 | 28 | 11 | 52 | 3.6 | 24 | 1.3 |
| 19 | | 30.072 | 22 | 12 | 67 | 1.7 | 20 | 1.0 |
| 22 | | 30.061 | 21 | 12 | 70 | 1.7 | 19 | 0.9 |

HOURLY PRECIPITATION (Water Equivalent)
February 2005: Westford

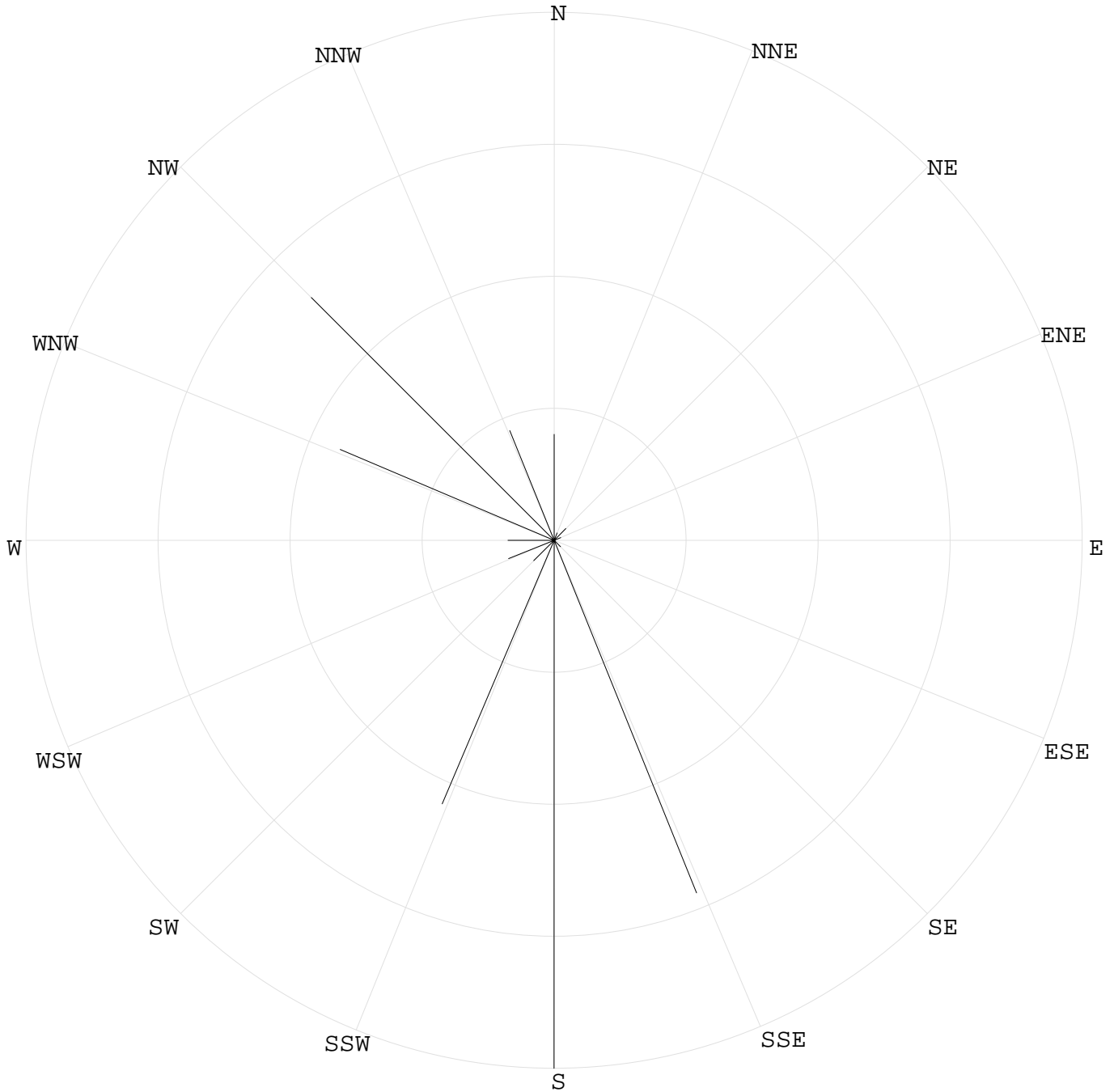
| Date | A.M. Hour Ending at | | | | | | | | | | | | P.M. Hour Ending at | | | | | | | | | | | | Date | |
|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | 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 |
| Sum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Sum | |

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

HOURLY-BY-HOURLY DATA
February 2005: Westford



Wind Rose: February 2005
Westford



Maximum direction of wind: 434.6 miles from 180°.
1777.0 total miles of wind.