## Appendix A: Anatomy of a Zone Forecast

The National Weather Service issues forecasts for sky condition, precipitation probability, temperature, and wind on a routine basis. Because the weather is always changing, the terminology used in these forecasts is also quite variable. Listed below are descriptions of regularly used weather terms that should give you a better understanding of each forecast.

## SKY CONDITION

The sky condition describes the predominant/average sky condition based on the percentage of sky covered by opaque (not transparent) clouds. If a high probability of precipitation ( $60 \%$ or greater) is expected over a majority of the forecast period, then the sky condition may be omitted since it is inferred from the precipitation forecast.

| Sky Condition | Opaque Cloud Coverage |
| :---: | :---: |
| Cloudy / Overcast | $88-100 \%$ |
| Mostly Cloudy / Considerable Cloudiness | $70-87 \%$ |
| Partly Sunny / Mostly Cloudy | $51-69 \%$ |
| Mostly Sunny / Partly Cloudy | $26-50 \%$ |
| Sunny / Mostly Clear | $6-25 \%$ |
| Sunny / Clear | $0-5 \%$ |

## PRECIPITATION PROBABILITY

The Probability of Precipitation (POP) is defined as the likelihood of occurrence (expressed as a percent) of a measurable amount of liquid precipitation (or the water equivalent of frozen precipitation) during a specified period of time at any given point in the forecast area. Measurable precipitation is equal to or greater than $0.01^{\prime \prime}$. Unless specified otherwise, the time period is normally 12 hours. The forecast area, or zone, is generally considered to be a county. NWS forecasters use such categorical terms as occasional, intermittent, or periods of to describe a precipitation event that has a high probability of occurrence $(80 \%+)$ but is expected to be of an "on and off" nature.

| POP Percent | Expression of Uncertainty | Equivalent Areal Qualifier <br> (convective only) |
| :---: | :---: | :---: |
| 10 percent | (None used) | Isolated |
| 20 percent | Slight chance | Isolated |
| $30,40, \& 50$ percent | Chance | Scattered |
| $60 \& 70$ percent | Likely | Numerous |
| $80,90, \& 100$ percent | (None used) | (None used) |

## TEMPERATURE

The temperature in a forecast is used to describe the forecast maximum and minimum temperature, or in some cases, the temperature expected at a specific time.

| Temperature Description | Forecast Interpretation |
| :---: | :---: |
| Around 40 Near 40 | A range of temperatures from 38 to 42 |
| Lower 40s | Temperatures of $40,41,42,43,44$ |
| Mid 40 s | Temperatures of $43,44,45,46,47$ |
| Upper 40 s | Temperatures of $46,47,48,49$ |
| 40 to 45 | Temperatures of $40,41,42,43,44,45$ |

## WIND

The wind describes the prevailing direction from which the wind is blowing, with speeds in miles per hour. Wind velocity is included in the first five periods of a zone forecast.

| Sustained Wind Speed | Descriptive Term |
| :---: | :---: |
| $0-5 \mathrm{mph}$ | Calm / Light / Light \& variable |
| $5-15 \mathrm{mph} / 10-20 \mathrm{mph}$ | (None used) |
| $15-25 \mathrm{mph}$ | Breezy (mild weather) |
| $20-30 \mathrm{mph} / 25-35 \mathrm{mph}$ | Brisk or Blustery (cold weather) |
| $30-40 \mathrm{mph}$ | Windy |
| 40 mph or greater | Strong, dangery windy <br> (High Wigh, damaging Warning criteria) |

## TIME PERIODS

| Forecast Time Period | NWS Definition (LST) |
| :---: | :---: |
| Today | $6 \mathrm{am}-6 \mathrm{pm}$ (or Issuance -6 pm ) |
| This Morning | 6am-noon |
| This Afternoon | Noon-6pm |
| This Evening | 6pm-midnight |
| Overnight | Midnight-6am |
| Tonight | 6pm-6am (or Issuance - 6am) |

