# Forecast Data Displayed in Heatmap Format

We aim to display NOAA and CWRF rainfall and temperature prediction data in a heatmap format. The chart will be split into two sections:

1. **Forecast Portion (Right/Orange):** This section represents prediction ensemble members for future data.
2. **Historical Portion (Left/Grey):** This section displays historical data spanning the past 30 years.

The heatmap uses bar lengths and positions to indicate data ranges, defined by the minimum and maximum values. The color intensity in the heatmap reflects data clustering, with more intense colors representing higher concentrations of values. To ensure comparability between sections, normalization techniques will adjust for differences in population size between bars. This allows the intensity of colors to consistently represent data density across both historical and forecast data.

A thermometer with numbers

Description automatically generated

A yellow and grey box

Description automatically generated

A yellow and grey box

Description automatically generated