Optimal Meteorological Conditions at Selected NASCAR Facilities

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Which month has the highest probability of optimal fan comfort at a particular NASCAR facility?

Definition of Optimal Fan Comfort:

- Apparent Temperature $\geq 65^\circ F$ and $\leq 80^\circ F$
- Wind Speed $< 17$ knots
- Based on the Beaufort Wind Scale
- No Measurable Precipitation

Procedure:

- Time frame between 7 AM and Midnight LST
- Use Excel to filter data and determine:
  - The number of hours that meet all optimal conditions
  - The number of total hours during the observation time
  - A percentage of which all optimal conditions are met

Results

- Daytona International Speedway
  - Left: Number of all observations and number of observations that meet all optimal conditions at each hour
  - Below: Percentage of optimal conditions met for each month

- ~38 years of data
  - (10 stations, ~340,000 observations per station)