

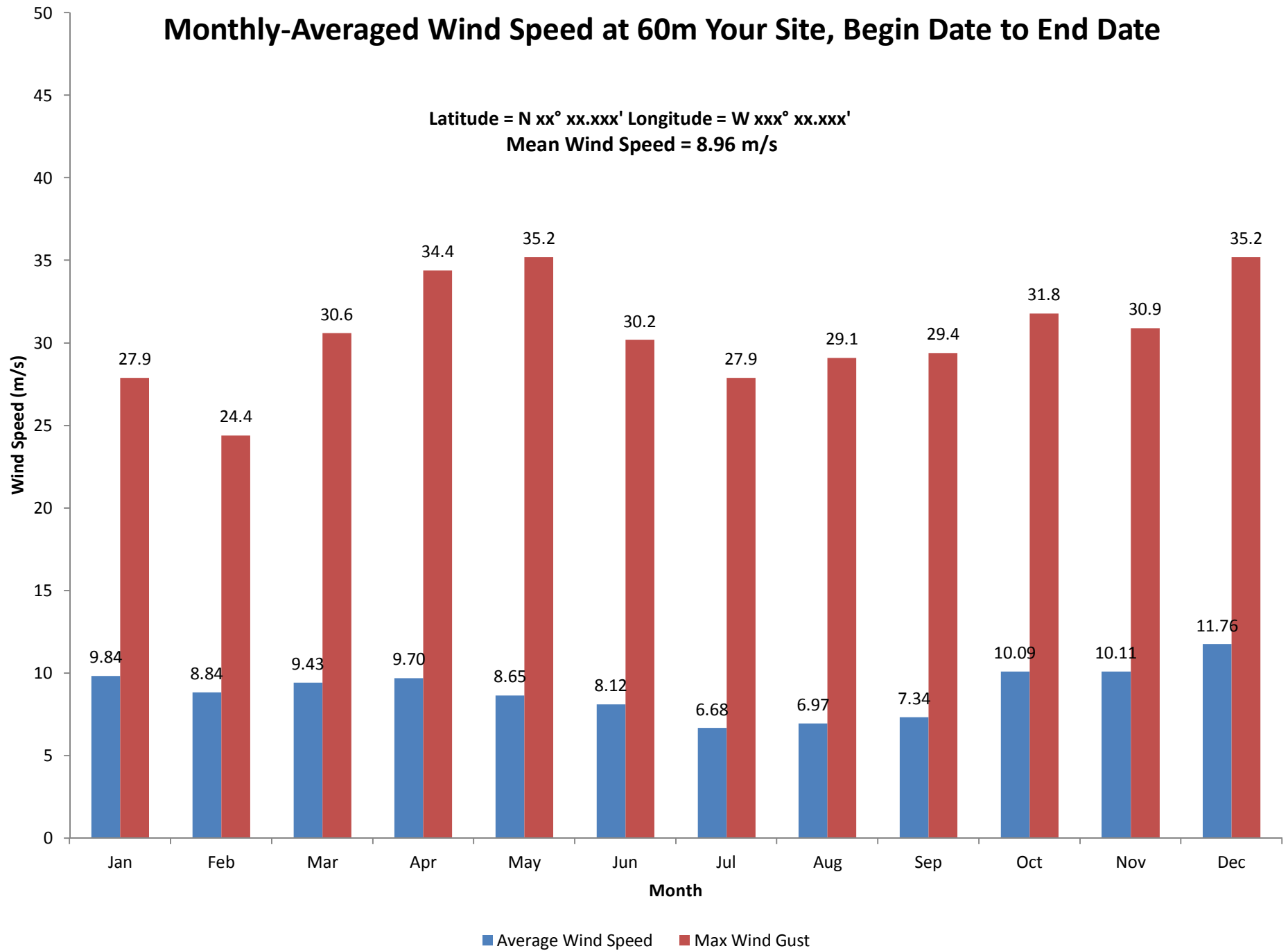
*Your Site Data Analysis
Begin Date to End Date*

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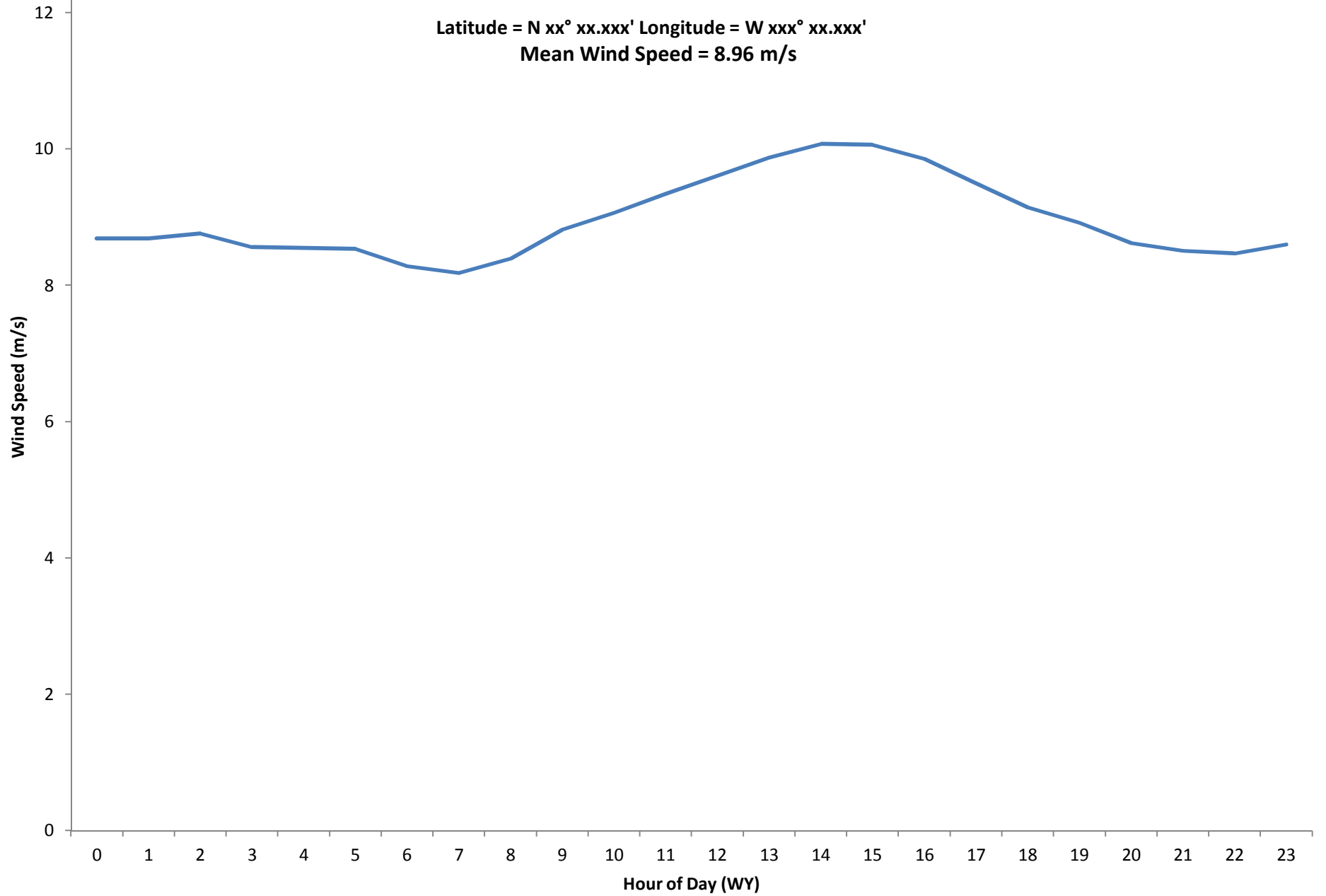
Monthly-Averaged Wind Speed at 60m Your Site, Begin Date to End Date

Latitude = N xx° xx.xxx' Longitude = W xxx° xx.xxx'
Mean Wind Speed = 8.96 m/s



Diurnally-Averaged Wind Speed at 60m Your Site, Begin Date to End Date

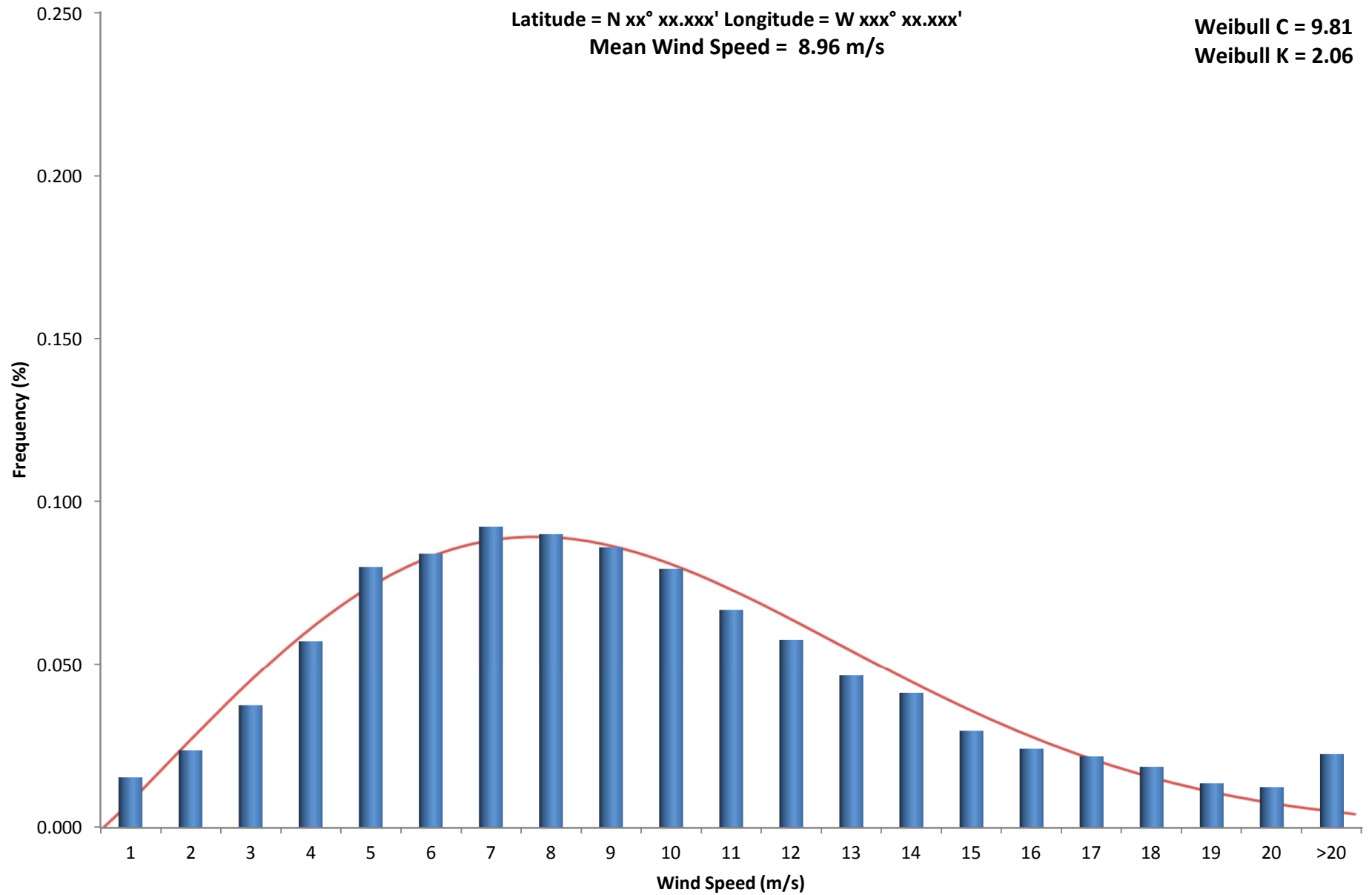
Latitude = N xx° xx.xxx' Longitude = W xxx° xx.xxx'
Mean Wind Speed = 8.96 m/s



Climatological Weibull Distribution and Histogram at 60m Your Site, Begin Date to End Date

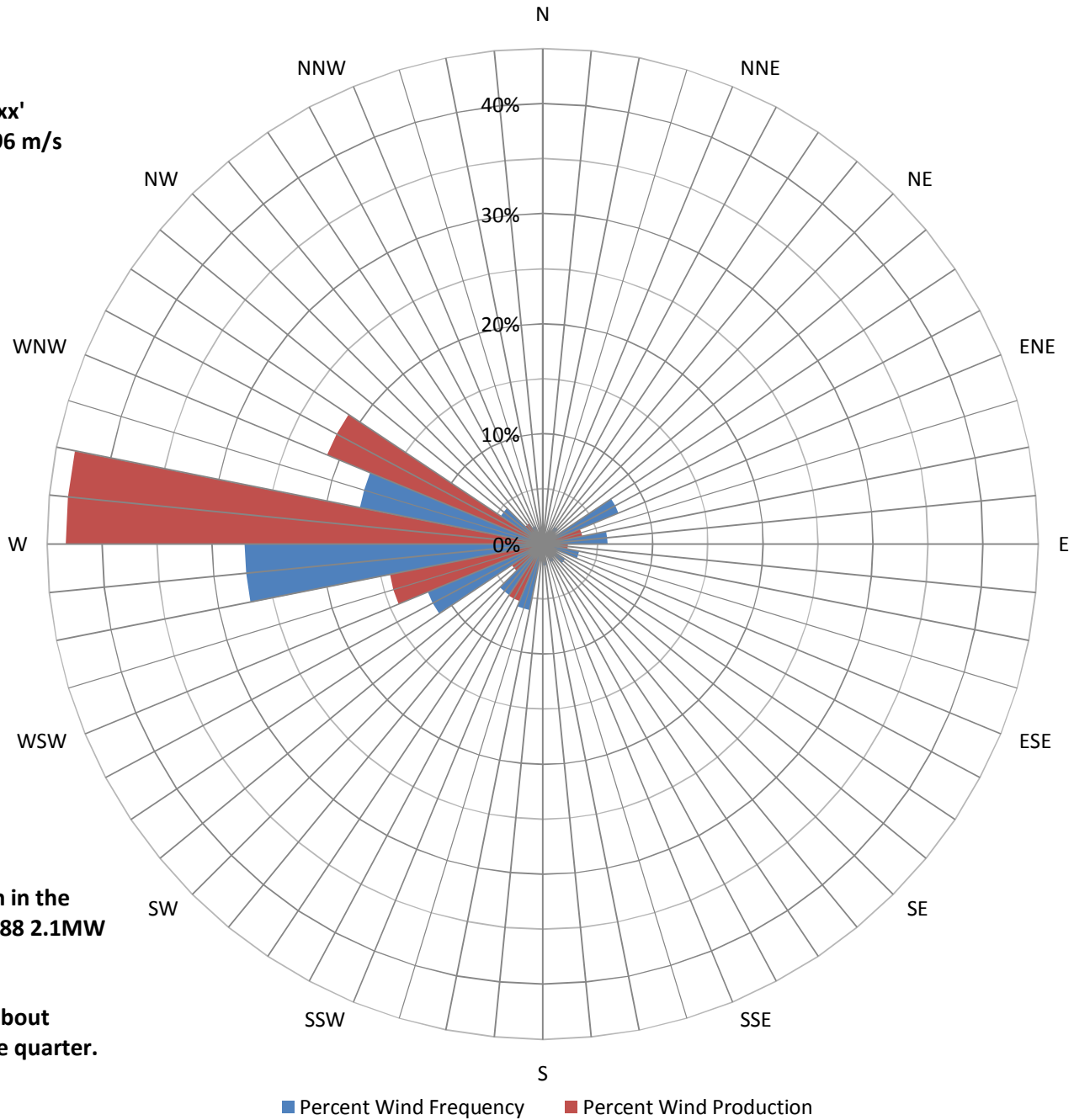
Latitude = N xx° xx.xxx' Longitude = W xxx° xx.xxx'
Mean Wind Speed = 8.96 m/s

Weibull C = 9.81
Weibull K = 2.06



Annual Wind Frequency and Energy Production at 60m Your Site, Begin Date to End Date

Latitude = N xx° xx.xxx'
Longitude = W xxx° xx.xxx'
Mean Wind Speed = 8.96 m/s



Estimated 7390000 kWh in the quarter, with a Suzlon S88 2.1MW turbine.

Would have produced about 8380000 kWh during the quarter.

Summary

<u>Icing Data</u> ¹	<u>Missing/Null Data</u> ²	<u>Total Hours</u> ³	<u>Remaining Hours of Data</u> ⁴	<u>Percent of total used in charts</u> ⁵
59 hrs	0 hrs	8758 hrs	8699 hrs	99.3%

Annual Wind Frequency and Energy Production (Windrose) chart:

All energy production calculations are based on the Suzlon S88 2.1MW turbine, **neglecting the effects of changes in air density due to fluctuations in temperature, air pressure, and humidity**. The assumed air pressure was that of sea level, so actual values would be lower.

The value given for estimated energy production is based on the average wind speed throughout the measurement period for each wind bin (direction). This is roughly equivalent to a P50 analysis. (That is, there is about a 50% chance that actual production would be above or below the given value.)

The value given for energy that would have been produced is based on every hour of data. The energy production based on the average wind speed for each hour was calculated, giving a kWh production for every hour of data. These values were then added together to give a total energy production for the measurement period.

A Suzlon S88 2.1MW turbine at the site would have produced at about 45.9% of capacity. Hours below cut-in wind speed were 1095, or 12.6% of the total hours. Hours above cut-out wind speed were 195, or 2.2% of the total hours.

Weibull Distribution chart:

The Weibull Distribution and Histogram looks good. The C value of 9.81 is related to the average wind speed for the time period. It is good that it is above 8. The K value affects the shape of the Weibull Distribution. The value of 2.06 is quite close to the ideal value of 2.

To the best of my knowledge, everything within this report is accurate. If you find any mistakes, please let me know.

¹ This is data that is unusable because ice build-up was slowing or stopping the sensors.

² This is data that is missing for some reason.

³ This is the total hours during the quarter that data could have been collected.

⁴ This is the number of hours of usable data collected.

⁵ This is the percent of usable data with respect to the total possible data.