



Expert Weather Report
Annual Prevailing Winds

Written for:

The intersection of Arlington Place & Chelsea Street
Hendersonville, NC

Case/Claim Reference:
ABC vs XYZ / 123456789

Report Prepared For:
XYZ Law Offices
Attention: Charles Nelson

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Report Profile

Date Report Prepared: January 1, 2008

Report Written For: XYZ Law Offices
123 Cumulus Street
Sun City, Florida 11111
Attention: Charles Nelson

Case/Claim Reference: ABC vs XYZ / 123456789

Time Period of Analysis: January through December

Incident Location: Intersection of Arlington Place & Chelsea Street – Hendersonville, NC

Incident Type: Environmental / Prevailing Winds

Abstract

After a thorough investigation of all prevailing wind data during the period January through December, it has been determined that the annual prevailing wind direction in the vicinity of the intersection of Arlington Place & Chelsea Street – Hendersonville, NC is north-northwest (340°) and the mean sustained wind speed is 7.6 mph. These averages were calculated over a 30 year period from 1971-2000 at an anemometer height of 10 meters.

Introduction

This analysis is based on prevailing wind data gathered in the vicinity of the intersection of Arlington Place & Chelsea Street – Hendersonville, NC during the period January through December (calendar year). All data used in this analysis is official and certifiable National Weather Service (NWS) data. This analysis required the use of climatological summaries. The following is a list of all data sites utilized in this report followed by their approximate distance from the incident site.

Asheville Regional Airport – Asheville, North Carolina (AVL) – 8 miles
Asheville (Downtown), North Carolina – 19 miles
Hendersonville 1 NE, North Carolina – 1 miles

Map of Reporting Sites & Incident Location



Weather Analysis

During the course of an average year the prevailing wind direction for each month of the year for Arlington Place & Chelsea Street – Hendersonville, NC is from the north-northwest (340°). The mean monthly sustained wind speed throughout the course of an average year ranges from a low of approximately 5.5 mph in August to a high of approximately 9.5 mph in January. The average annual prevailing wind direction is from the north-northwest (340°) at an annual mean speed of approximately 7.6 mph.

Tabular Analysis

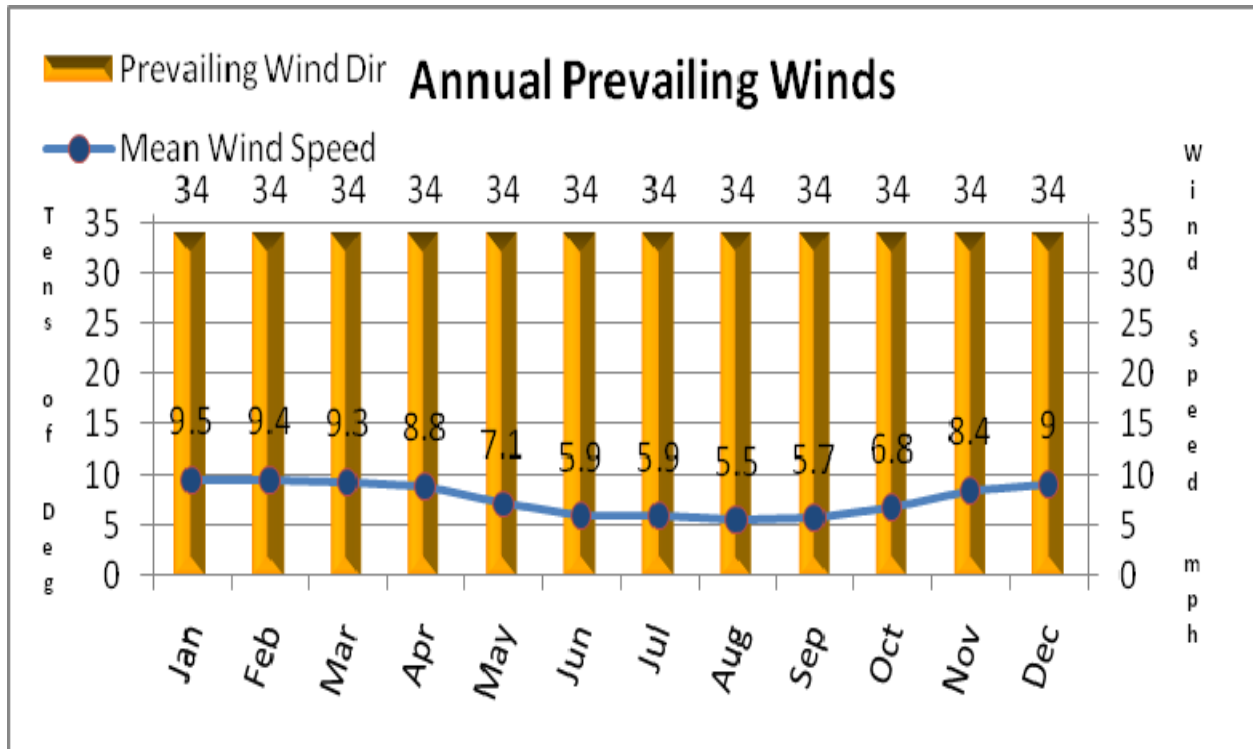
The following is a table of average monthly prevailing wind direction (in degrees) and monthly mean wind speed (mph) for January through December .

Month	Prevailing Wind Direction (Degrees)*	Mean Wind Speed (mph)
January	340	9.5
February	340	9.4
March	340	9.3
April	340	8.8
May	340	7.1
June	340	5.9
July	340	5.9
August	340	5.5
September	340	5.7
October	340	6.8
November	340	8.4
December	340	9.0
Annual Averages	340	7.6

* Note that the wind direction is the direction the wind is coming from.

Graphical Analysis

Below is a graph displaying the average monthly prevailing wind direction (bar graph) with the average monthly mean wind speed (line graph).



Conclusion

After a thorough review of all available prevailing wind data it can be concluded that during the period January through December (calendar year) in the vicinity of the intersection of Arlington Place & Chelsea Street – Hendersonville, NC the annual prevailing wind direction is from the north-northwest and the annual mean wind speed is 7.6 mph.



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