Alberta Panhandle Gulf

Figure 19.3.2-1 – Principle Tracks of Winter Synoptic Cyclones that Potentially Affect Wisconsin Weather^(a)

a) Based on Moran, J. M. and E. J. Hopkins, 2002.

Lake Superior Lowland Baylield Douglas Iron Ashland Mlas Sawyer Florence Northern burn ghland Forest Rusk Barron Marinette Lincoln Langlade Taylor Menom St. Croix Ò∞nto Marathon Door Pierce Eau Claire Clark Pepin Keweunee Buffalo Brown Central Winnebago Mar-Uplainds Richland Sauk Cravands Jeffer-Wau-)ane kesha Milwaukee lowa Grant Racine Wal-Green Lafayette worth north 50 miles

Figure 19.3.2-2 - Physiographic Provinces of Wisconsin^(a)

a) Based on Moran, J. M. and E. J. Hopkins, 2002.

10 20 **January** December 20 **February**

Figure 19.3.2-3 – Mean Wisconsin Winter Month Temperatures^(a)

March **April** May

Figure 19.3.2-4 – Mean Wisconsin Spring Month Temperatures^(a)

58 -60 60 66 68 June July 64 66 68 **August**

Figure 19.3.2-5 – Mean Wisconsin Summer Month Temperatures^(a)

46 September October 30 36 **November**

Figure 19.3.2-6 – Mean Wisconsin Autumn Month Temperatures^(a)

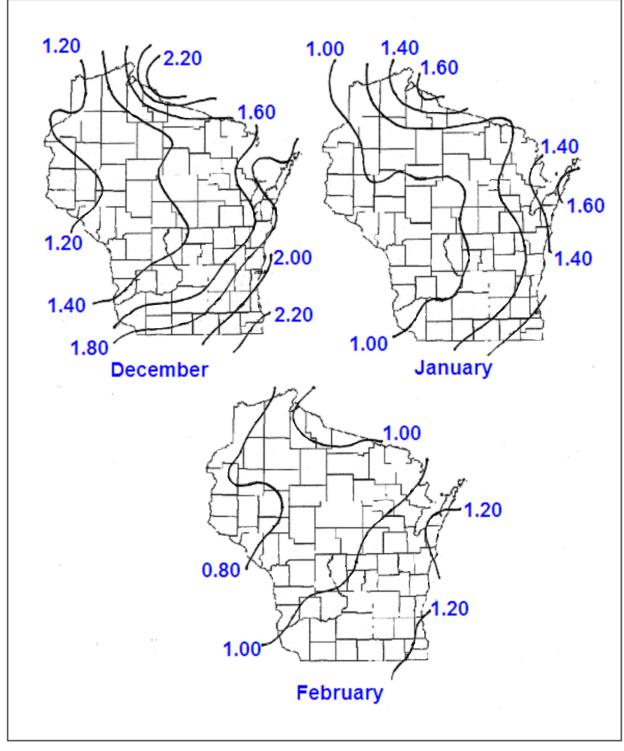


Figure 19.3.2-7 – Mean Wisconsin Winter Month Precipitation^(a)

2.00 1.80 2.60 3.00 3.20 2.00 3.40 2.20 March April 3.20 3.60 May

Figure 19.3.2-8 – Mean Wisconsin Spring Month Precipitation^(a)

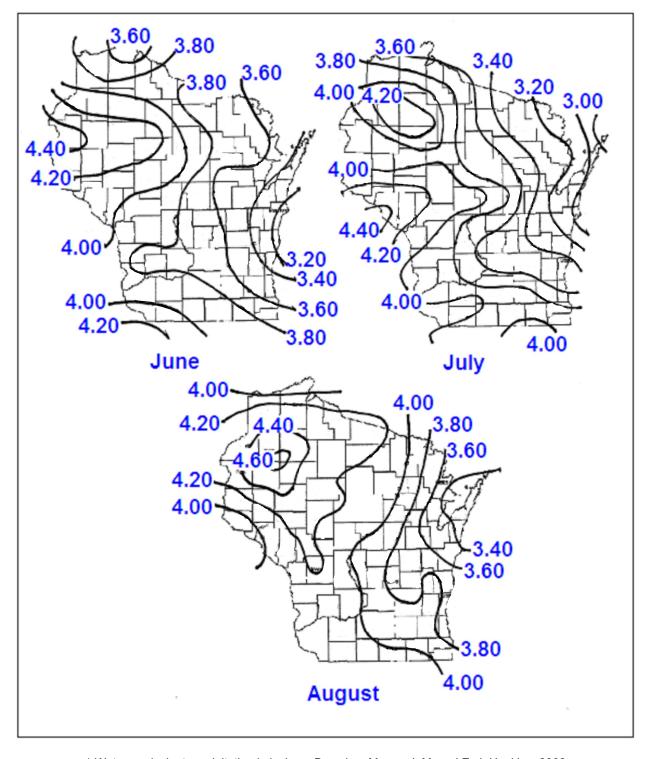


Figure 19.3.2-9 – Mean Wisconsin Summer Month Precipitation^(a)

2.80 3.60 3.80 3.80 2.60 3.80 September October 2.00 November

Figure 19.3.2-10 – Mean Wisconsin Autumn Month Precipitation^(a)

Bayfield Douglas iron Ashland Mlas Wash-Burnett Sawyer Florence neida Price Forest Rusk Polk Barron Marinette Lincoln Langlade Taylor Menom-St. Croix Chippewa Oconto Dunn Marathon Shawano Door Pierce Eau Claire Clark Pepin Keweunee Wau-Brown Outa-Wood paca gamie Jackson aleau Winne-Cal Waushara bago Adams une Monroe 1 Northwest quette_treer uneau Lake Sheboygan Fond du Lac 2 North Central Vernon 3 Northeast blumbia Vash-Dodge Richland Sauk 4 Western Uplands Crave ngton 5 Central Jeffer-Wau-6 East Central kesha Milyaukee lowa Grant 7 Southwest Radine Wal-Green Rock Lafayette **8 South Central** worth Kenosha 9 Southeast

Figure 19.3.2-11 – NOAA COOP Network Climate Divisions of Wisconsin^(a)

a) Based on NCDC, 2011f.

MENOMINEE OCONTO MARATHON DOOR SHAWANO WOOD PORTAGE WAUPACA BROWN OUTAGAMIE WINNEBAGO CALUMET WAUSHARA ADAMS JUNEAU Mild of the **GREEN** COLUMBIA SAUK DODGE ND DANE MILWAUKEE JEFFERSON WAUK SHA 10 WA Project Site RACINE GREEN RON WISCON WALWORTH LAFAYETTE WISCONSIN KENOSHA INOIS NOIS ILLINOIS JO Daviess EPHENSON MCHENRY LAKE CARP JUL **OGLE** KANE DeKALB COOK WHITESIDE ŒΕ WILL BUREAU LA SALLE HENRY GRUNDY PUTNAM KANKAKEE STARK MARSHALL NOX LIVINGSTON 15 30 45 60 miles

Figure 19.3.2-12 - Outline of Climate Region Representative of the Site

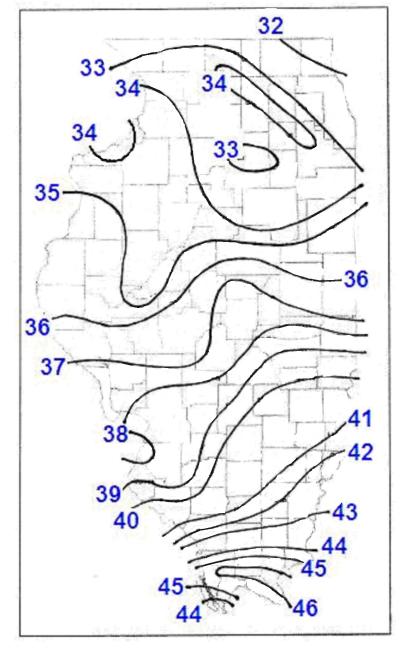


Figure 19.3.2-13 – Illinois Annual Mean Water Equivalent Precipitation^(a)

a) Precipitation in inches.

b) Based on Changnon et al., 2004; NCDC, 2011e; NCDC, 2011f.

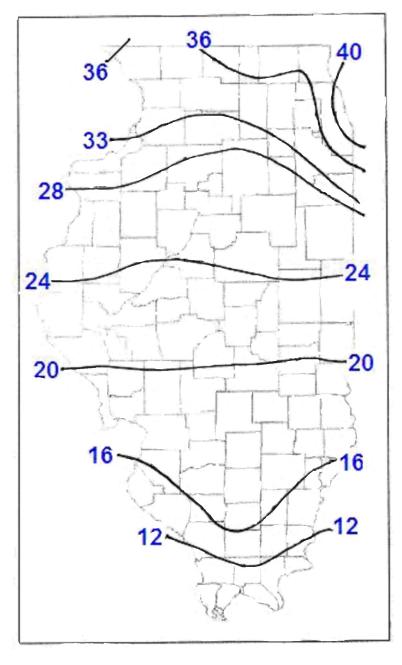


Figure 19.3.2-14 – Illinois Annual Mean Snowfall^(a)

- a) Snowfall in inches.
- b) Based on Changnon et al., 2004; NCDC, 2011e; NCDC, 2011f.

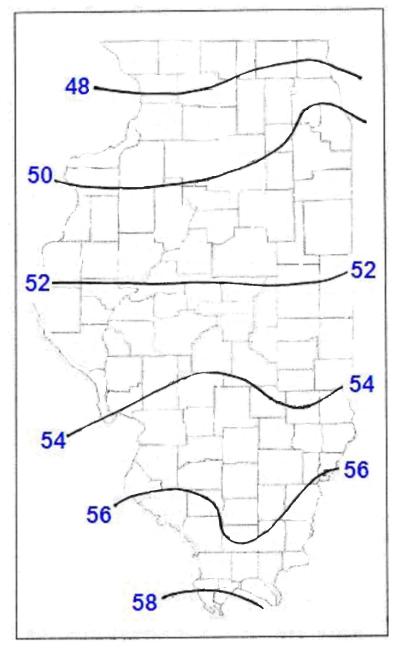


Figure 19.3.2-15 – Illinois Annual Mean Dry Bulb Temperatures^(a)

- a) Dry bulb temperatures in °F.b) Based on Changnon et al., 2004; NCDC, 2011e; NCDC, 2011f.

MENOMINEE OCONTO MARATHON DOOF SHAWANO WOOD PORTAGE WAUPACA BROWN OUTAGAMIE WINNEBAGO CALUMET WAUSHARA ADAMS GREEN JUNEAU Fond du Lac Dodge County Baraboo, СОГЛИВМ DOD SAUK ND Madison Wyatertown Middleton. Dade
County ERSON MILWAUKEE WAUK SHA IOWA Project Site Monroe, Burlington WALWORTH LAFATELLE KENOSHA Janesville MANIENRY DAVIESS LAKE .Rockford Freeport DuPage Albertus **OGLE** County DelGLB KANE COOK WHITESIDE DeKalb Rochelle Taylor WILL BUREAU LA SALLE HENRY GRUNDY PUTNAM KANKAKEE STARK MARSHALL NOX LIVINGSTON 60 miles 15 30 45 north

Figure 19.3.2-16 - NOAA ASOS Stations Located within the Site Climate Region

MENOMINEE OCONTO MARATHON DOOR SHAWANO. WOOD PORTAGE WAUPACA BROWN OUTAGAMIE WAUSHA". Beaver Horicon Wisconsin Dam MS Fond Du Lac Dalton Dells GREEN Baraboo Portage DODGE O Prairie AUK Watertown ODANE Madison Du Sac. Hartford 2W Oconomowoc Arlington. Univ Farm JEFFERGS" MILWAUKEE WAUK SHA o Charmany Project Site Farm Ft Atkinson WALWORT Arboretum Lake Geneva Univ of WI Beloit Stoughton i Marengo /30N Rockford AP KANE DeCALB COOK WHITESIDE DeKalb WILL BUREAU LA SALLE HENRY GRUNDY PUTNAM KANKAKEE STARK MARSHALL NOX LIVINGSTON 15 30 45 60 miles north

Figure 19.3.2-17 - NOAA COOP Stations Located within the Site Climate Region

Figure 19.3.2-18 – Wisconsin and Illinois Counties within Site Climate Region Selected for Investigation of Severe Weather Phenomena

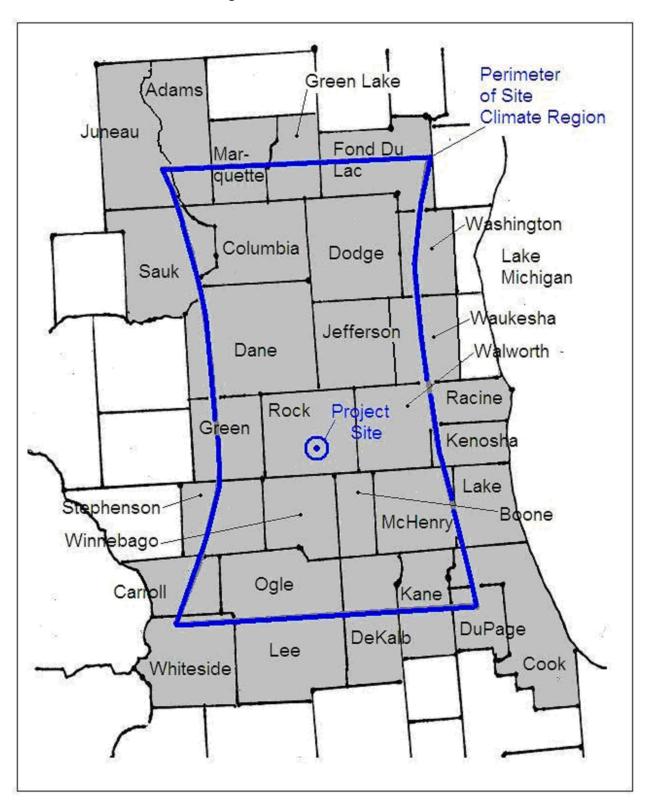


Figure 19.3.2-19 – Annual Wind Rose Southern Wisconsin Regional Airport (2005-2010)

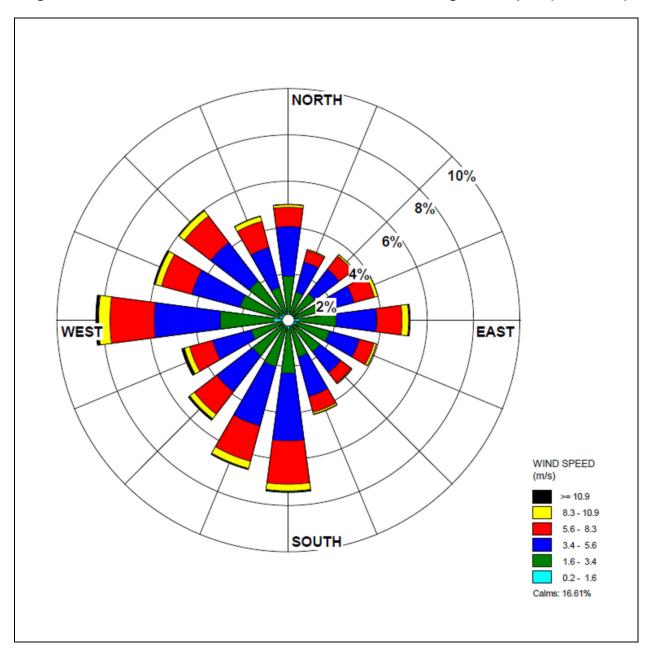


Figure 19.3.2-20 – January Wind Rose Southern Wisconsin Regional Airport (2005-2010)

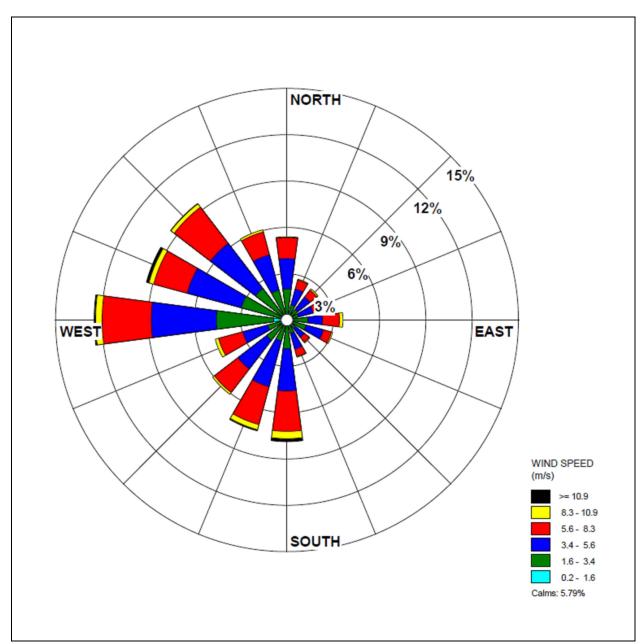


Figure 19.3.2-21 – February Wind Rose Southern Wisconsin Regional Airport (2005-2010)

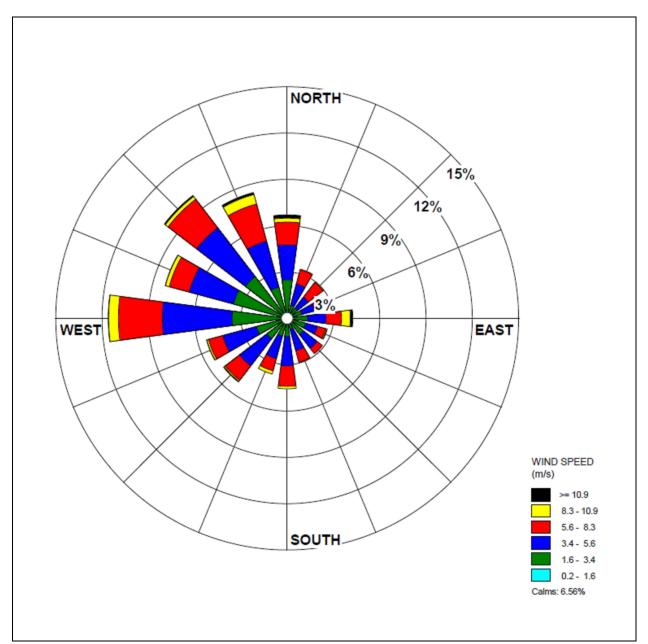


Figure 19.3.2-22 – March Wind Rose Southern Wisconsin Regional Airport (2005-2010)

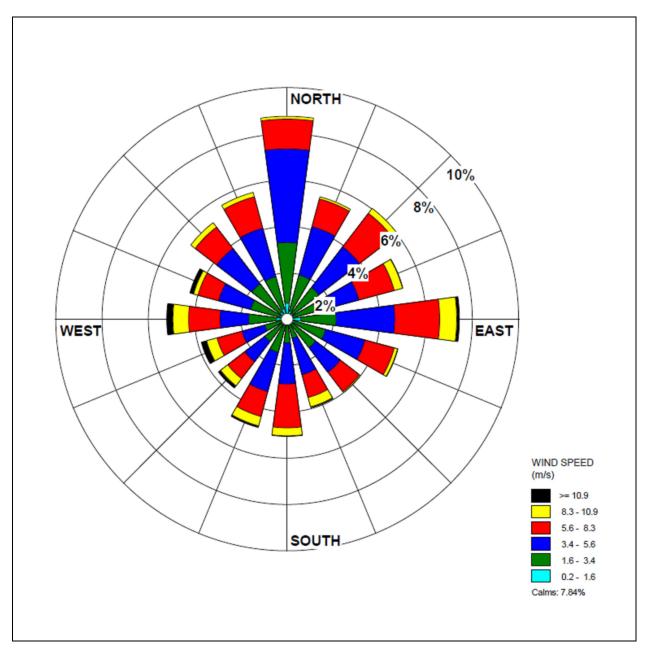


Figure 19.3.2-23 – April Wind Rose Southern Wisconsin Regional Airport (2005-2010)

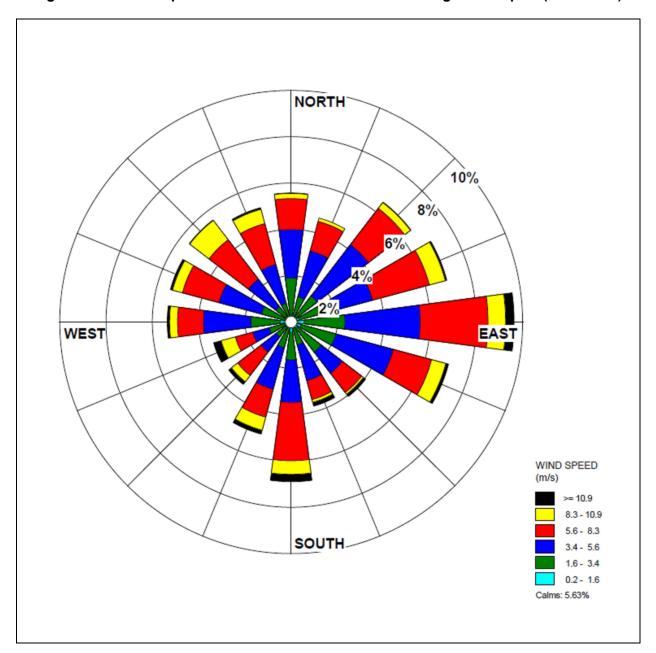


Figure 19.3.2-24 – May Wind Rose Southern Wisconsin Regional Airport (2005-2010)

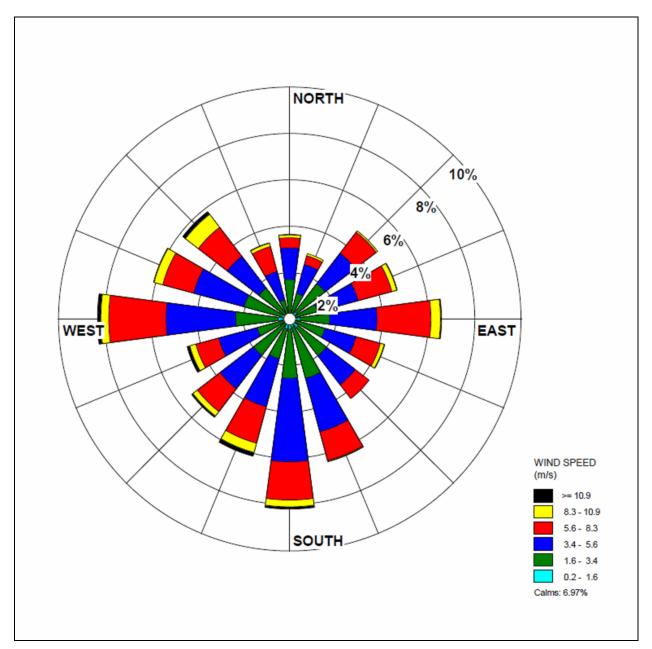


Figure 19.3.2-25 – June Wind Rose Southern Wisconsin Regional Airport (2005-2010)

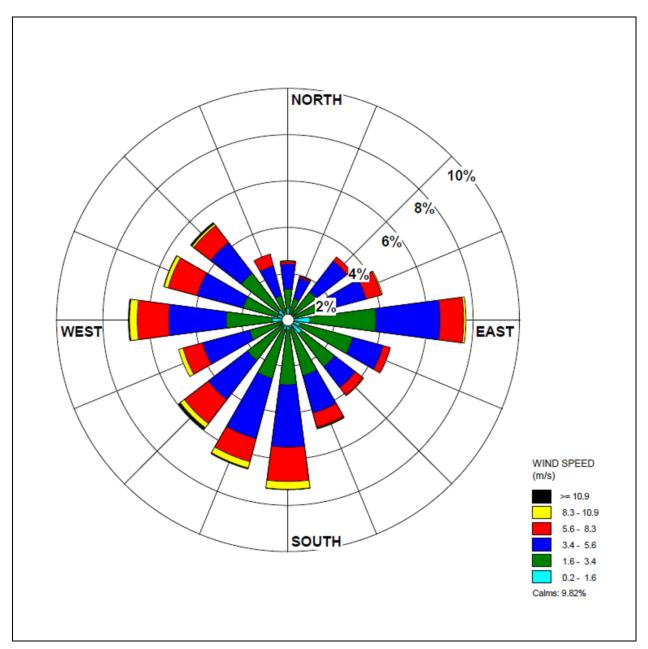


Figure 19.3.2-26 – July Wind Rose Southern Wisconsin Regional Airport (2005-2010)

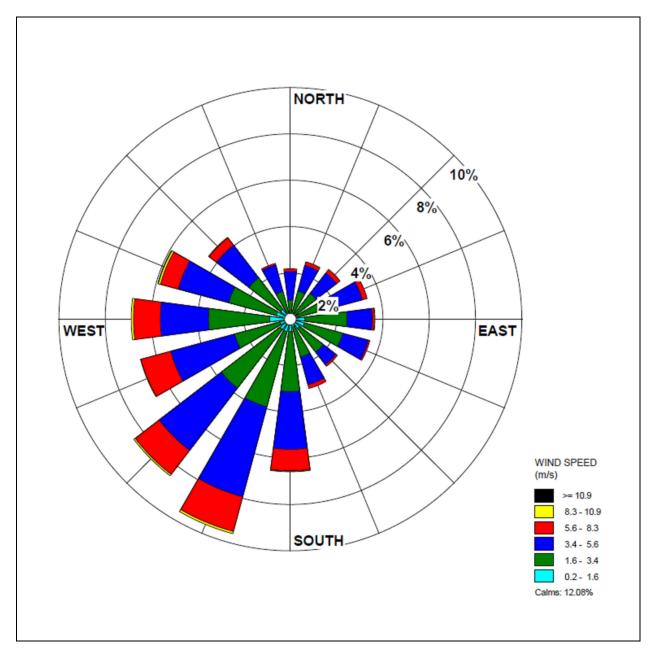


Figure 19.3.2-27 – August Wind Rose Southern Wisconsin Regional Airport (2005-2010)

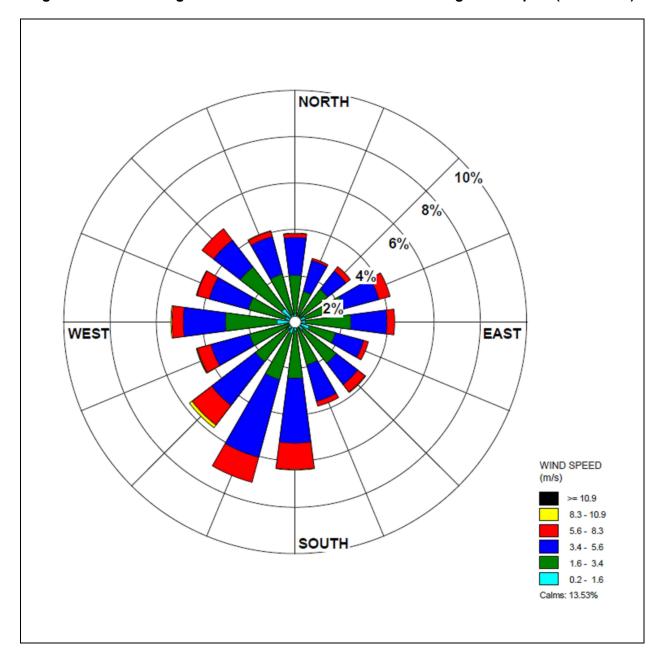


Figure 19.3.2-28 – September Wind Rose Southern Wisconsin Regional Airport (2005-2010)

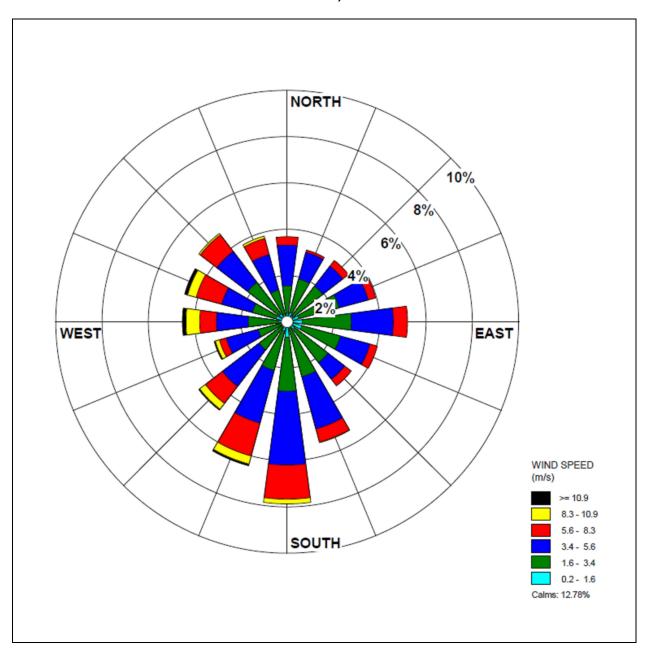


Figure 19.3.2-29 – October Wind Rose Southern Wisconsin Regional Airport (2005-2010)

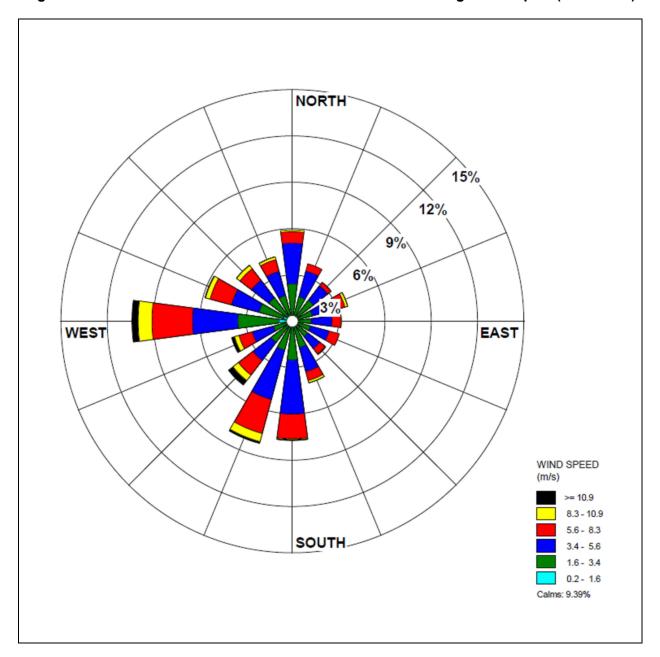


Figure 19.3.2-30 – November Wind Rose Southern Wisconsin Regional Airport (2005-2010)

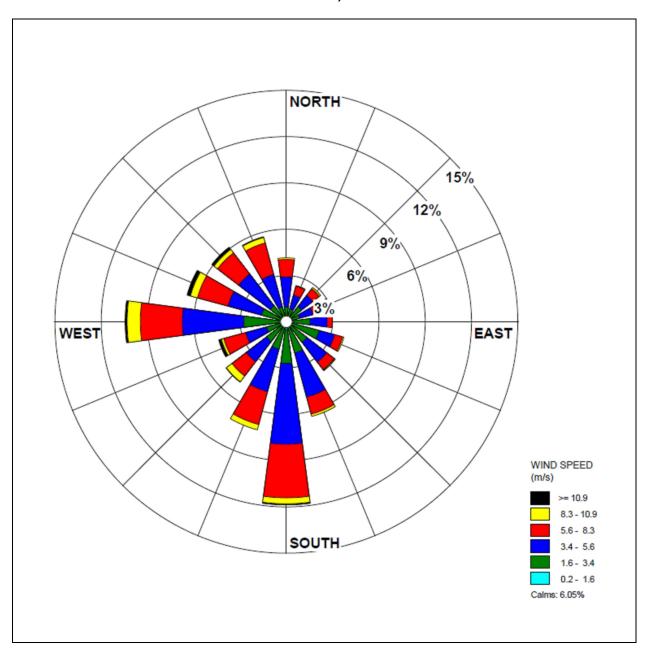


Figure 19.3.2-31 – December Wind Rose Southern Wisconsin Regional Airport (2005-2010)

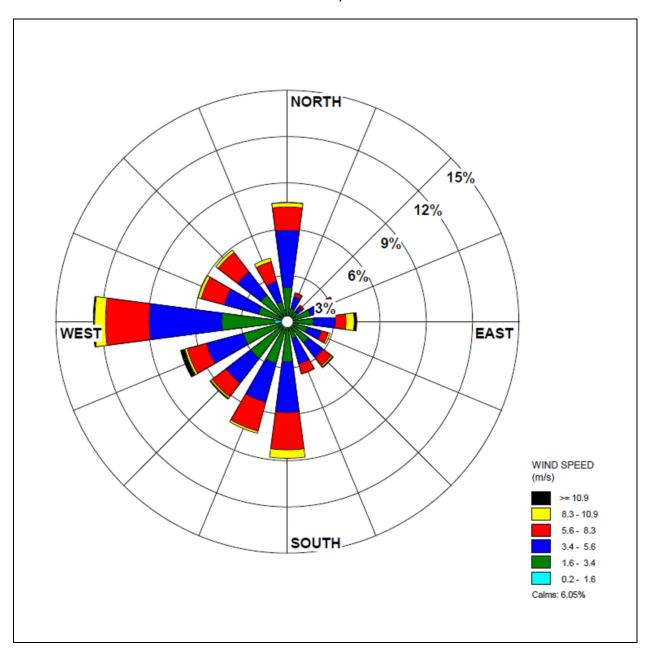


Figure 19.3.2-32 – Winter Wind Rose Southern Wisconsin Regional Airport (2005-2010)

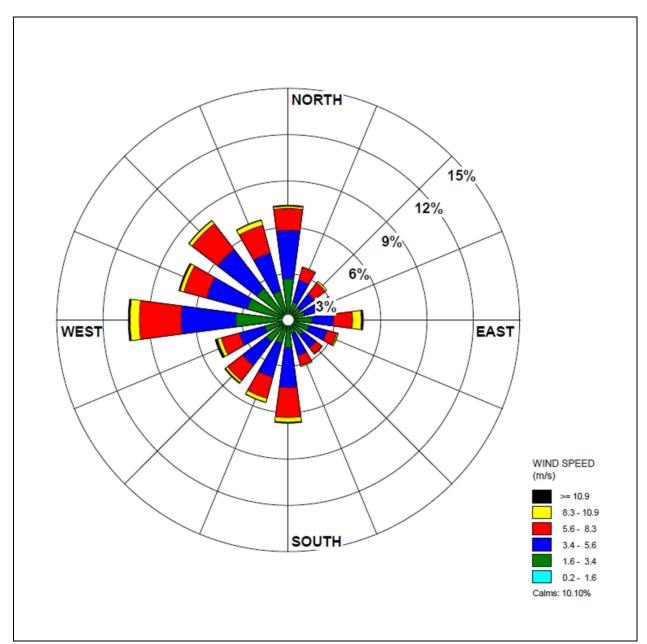


Figure 19.3.2-33 – Spring Wind Rose Southern Wisconsin Regional Airport (2005-2010)

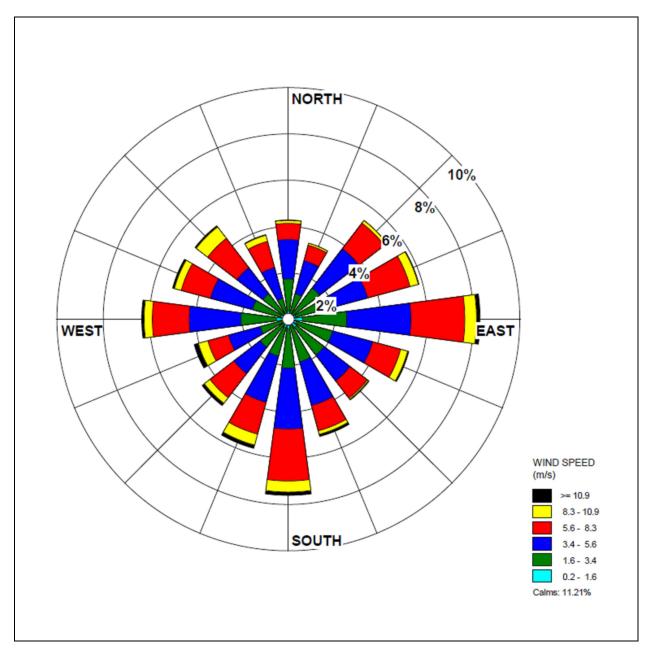


Figure 19.3.2-34 – Summer Wind Rose Southern Wisconsin Regional Airport (2005-2010)

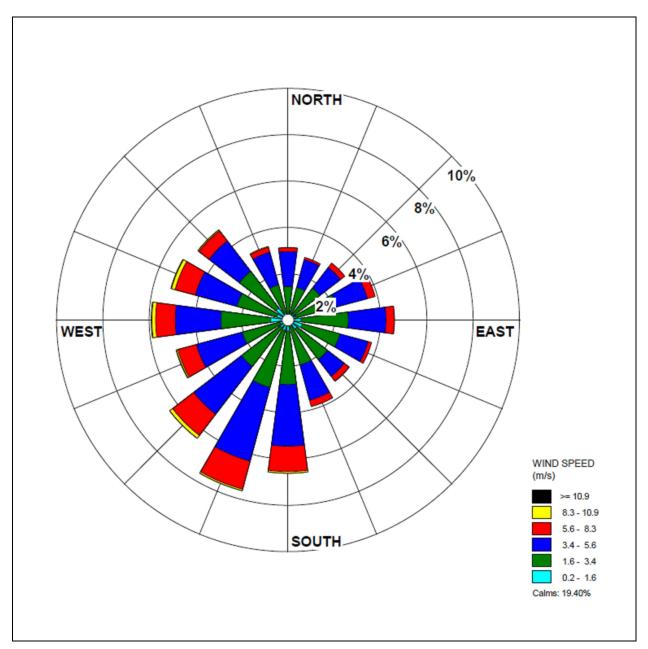


Figure 19.3.2-35 – Autumn Wind Rose Southern Wisconsin Regional Airport (2005-2010)

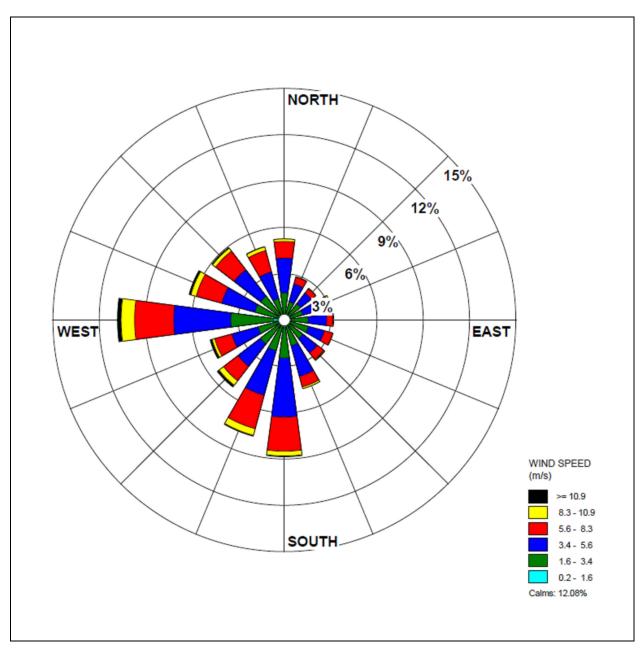
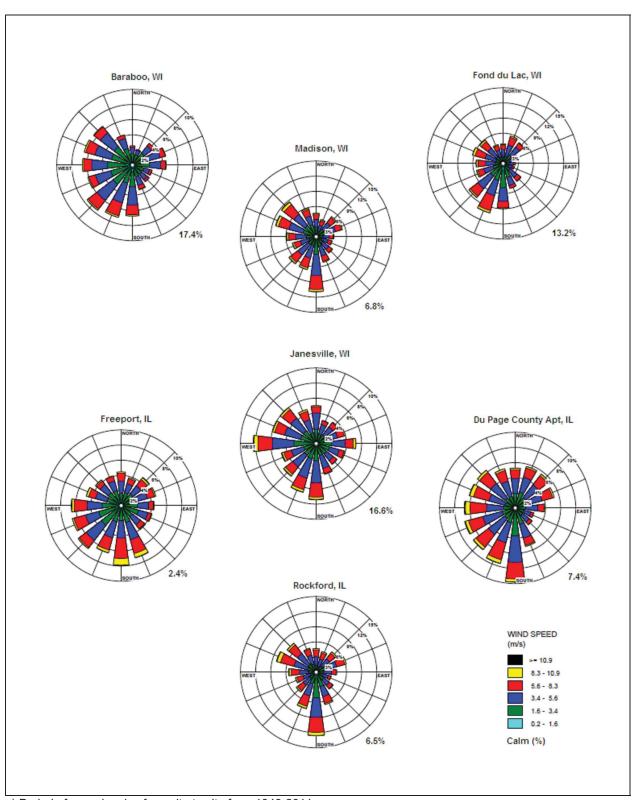


Figure 19.3.2-36 – Annual Wind Roses Southern Wisconsin Regional Airport (Janesville, WI) and Regional Stations^(a)



a) Period of record varies from site to site from 1948-2011.