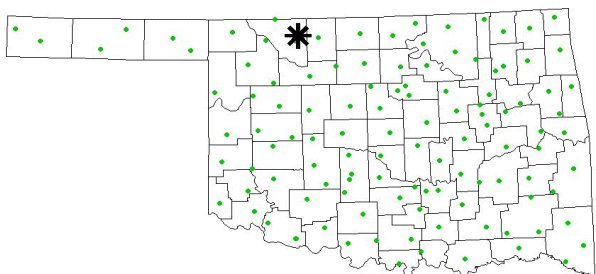


# Wind Climatology Alva Mesonet Station Station ID: ALVA



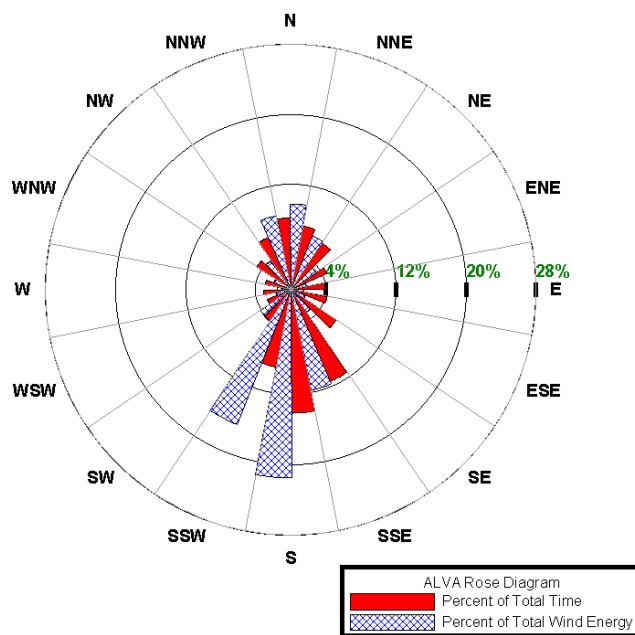
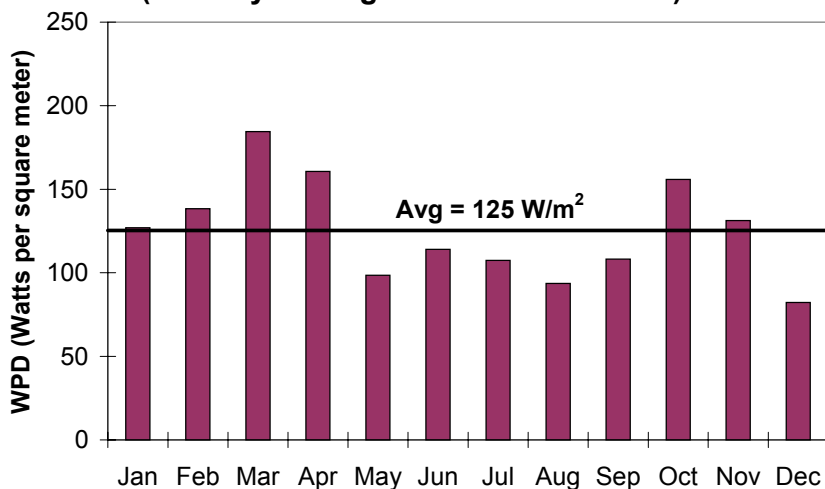
**Class 2 Site (January '94 – December '98)**  
**Average 10 m Wind Speed = 4.83 m/s (10.8 mph)**  
**Average Power Density = 125 W/m<sup>2</sup>**



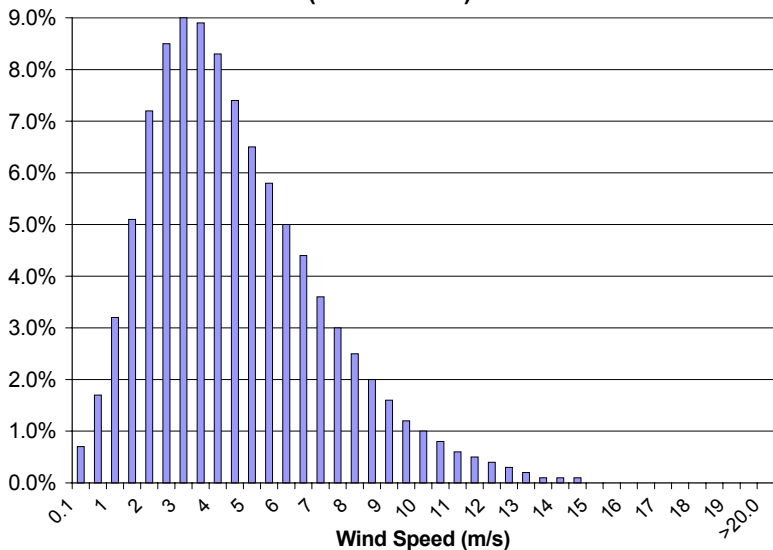
**Site Conditions:** This station's fetch conditions are rated "excellent". The terrain exposure at the site is +28 meters to the north and +3 meters to the south.

**Other Wind Statistics:** The five-minute averages for ten-meter wind speeds exceeded 9 m/s (20.1 mph) approximately 6.9% of the time, while winds less than 4.5 m/s (10.1 mph) approximately 52.6% of the time.

**Monthly Wind Power Density at 10 m  
(Monthly Averages over 1994 to 1998)**



**Frequency Distribution of Winds  
(1994 to 1998)**



**Annual Wind Power Density at 10 m  
(1994 to 1998)**

