ESTIMATED ENERGY PRODUCTION

Date Range
2003-02-19 TO 2003-10-20

SITE 0209

Site Information

Project:	Idaho State wind
Location:	Eagley, Mtn Home, ID
Site Elevation:	2800FT
Averaging Time:	10 min

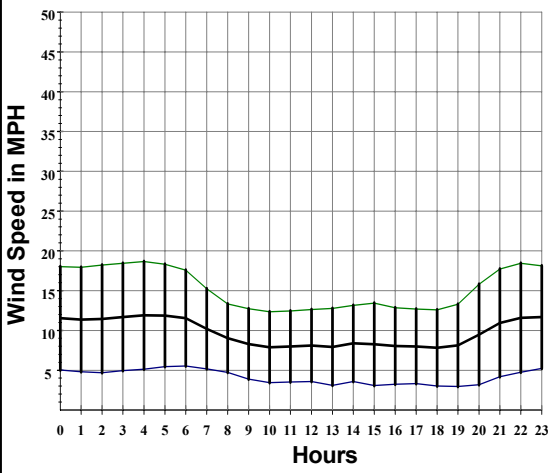
Sensor 1 Information

Channel:	1
Type:	Anemometer
Scale:	1.711000000
Offset:	0.7800
Description:	Anemometer
Height:	66FT

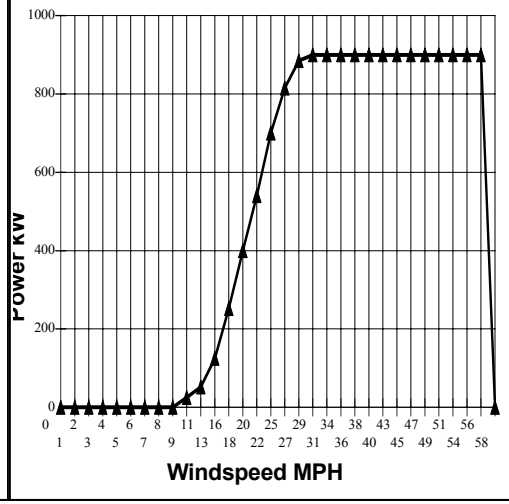
Sensor 2 Information

Channel:	2
Type:	Direction Vane
Scale:	1.000000000
Offset:	0.0000
Description:	Direction Vane
Height:	66FT

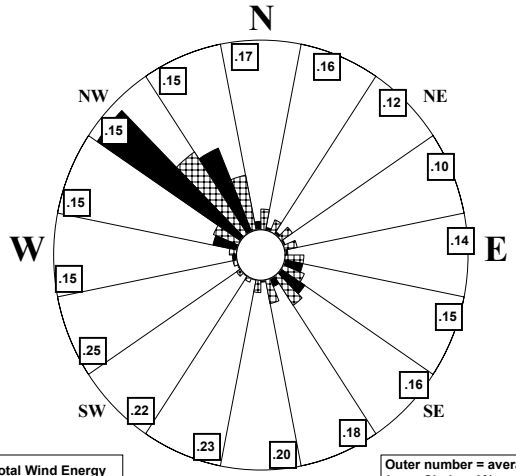
Diurnal Wind Speed Pattern



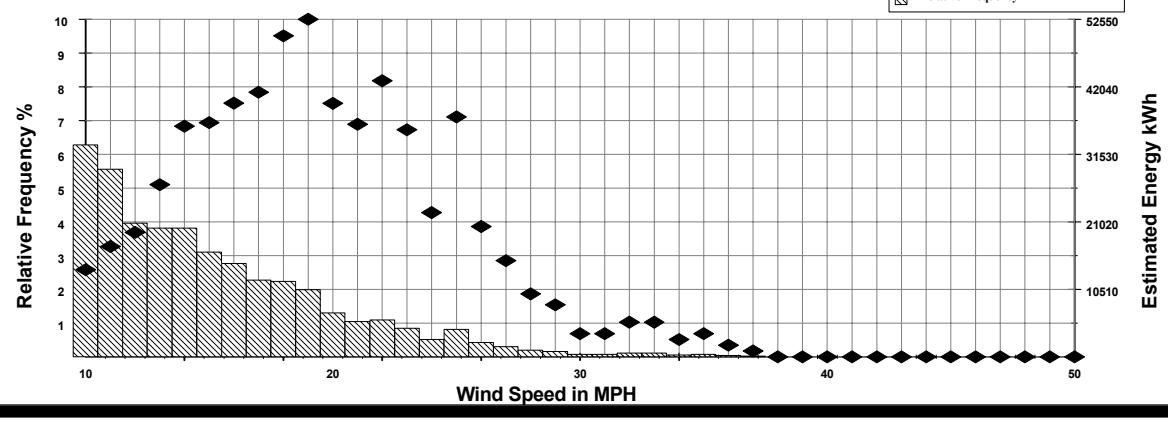
Power Curve for 900 kW Series



WIND ROSE GRAPH



Frequency Distribution Graph



Statistics

Estimated Energy Output	**631176 KWH**
Calculated Air Density	**1.121 kg/m3**
(temperature data and pressure based on elevation)	
Average Wind Speed	**9.7 MPH**
Average Turbulence Intensity	**0.17**
Mean Energy Wind Direction	**NW**
Mean Wind Direction	**NW**
Capacity Factor	**0.12**
Average Temperature	**0.0 F**
Turbine Manufacturer	**Enron Wind**
Turbine Model	**900 kW Series**
Turbine Rating	**900.0 kW**
Number of Turbines	**1**
Estimated Annual Production	**976701 KWH/Year**

Total hours = 5856 Total hours used in Calculations = 5661 Percent Data used = 96.6