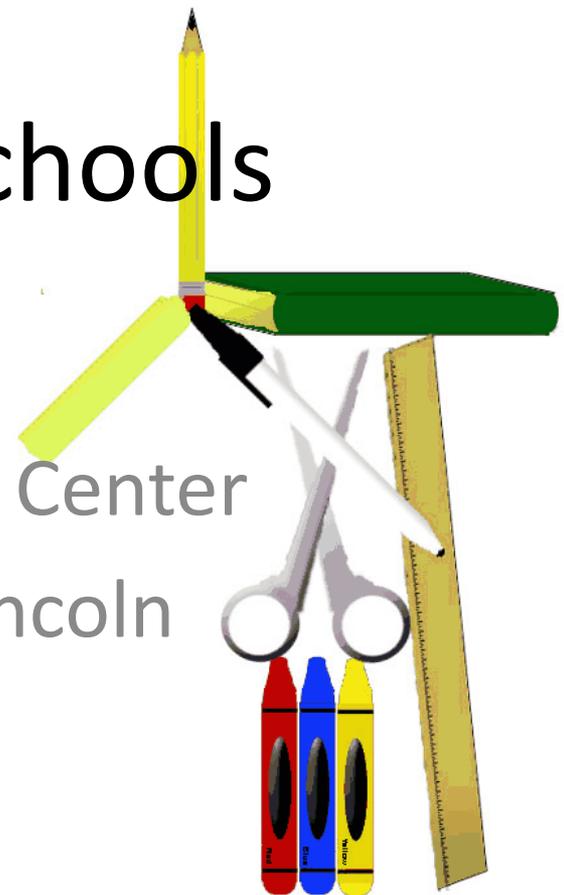


# Update On Nebraska Wind for Schools

Joel Jacobs

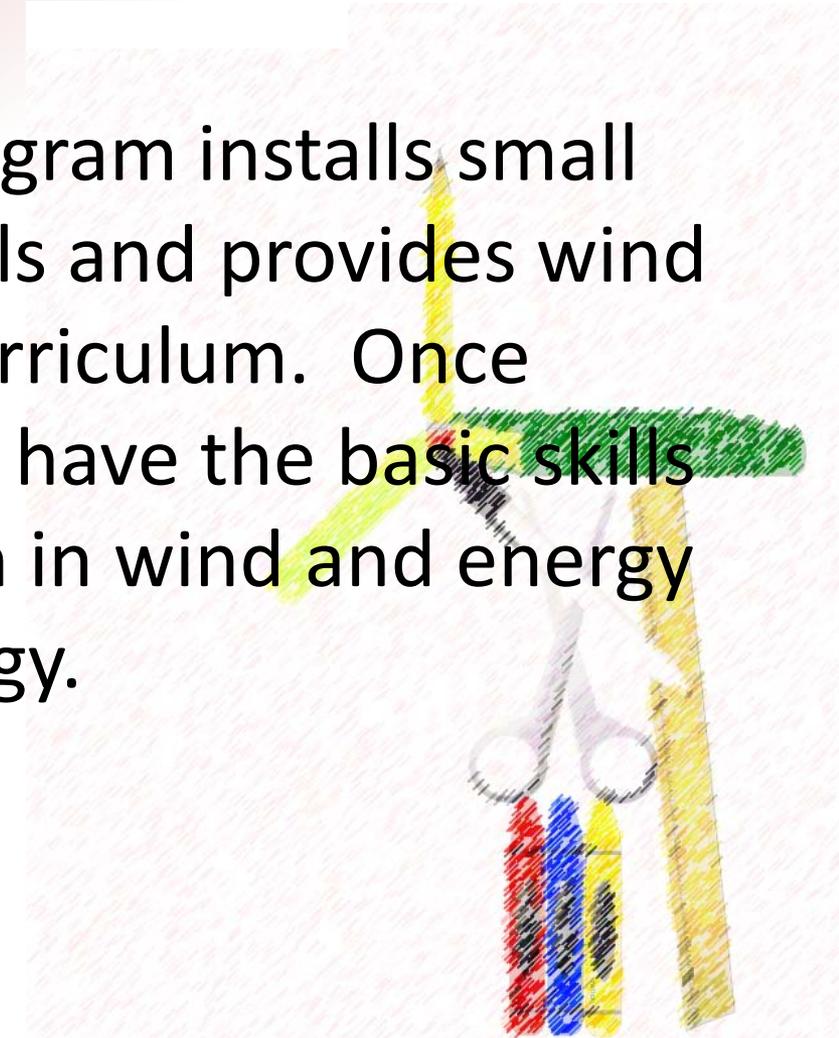
Nebraska Wind Applications Center

University of Nebraska--Lincoln



# Wind Applications Center

The Wind for Schools Program installs small wind turbine in rural schools and provides wind and energy-related curriculum. Once graduating, these students have the basic skills to pursue higher education in wind and energy technology.



# Wind Applications Center



<http://www.unl.edu>

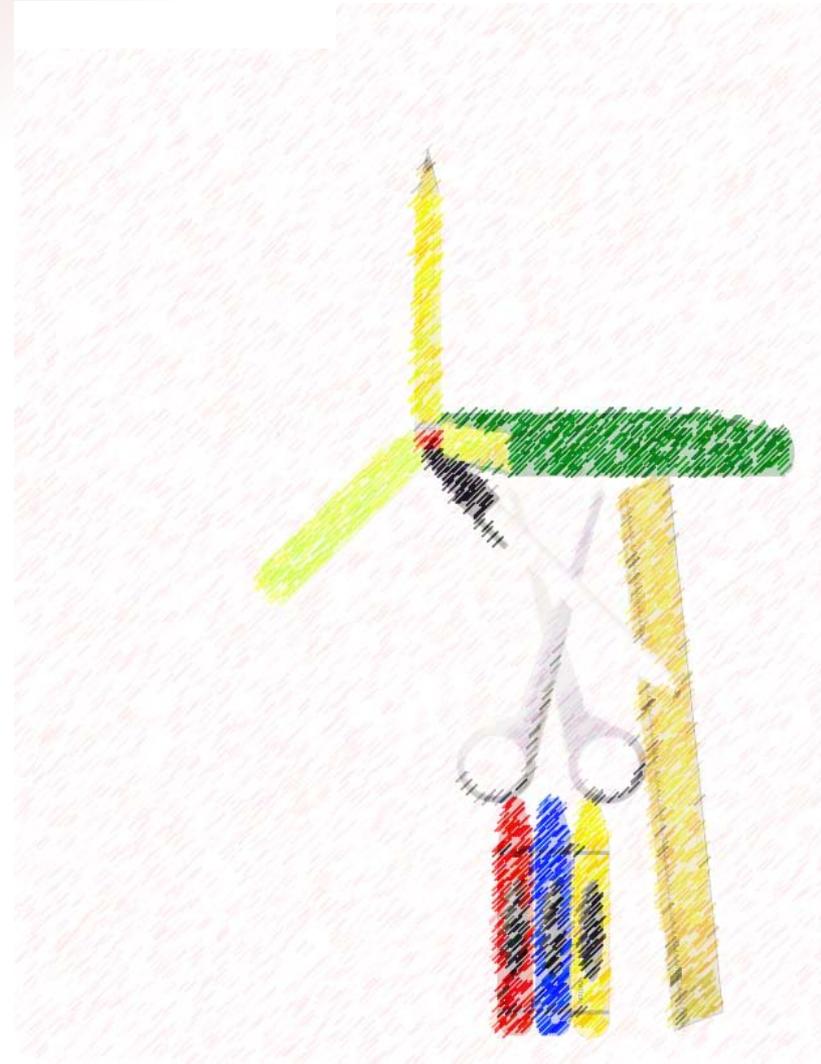
Search for 'Wind for Schools'





# Funding Sources

- USDA
  - RBEG or Community Grant
- Nebraska Energy Office
- Attorney General
  - SEP funds
- Nucor Steel
- Local Utility
- Local Contractors
- Anonymous Donors
- Booster Clubs



# Online Data

Norris Wind Turbine



\*\*\* Norris Public Schools Current Readings \*\*\*

Last update:  
Wed, 10 Nov 2010 04:06:22 GMT  
Tuesday, November 09, 2010 10:06:22 PM  
Status: Turbine:0000, System:0100, Grid:0000 \*

power: 364 Watts  
volts: 168.4 V  
Turbine Speed: 196 RPM  
Wind Speed: 6.00 m/s, 13.42 mph  
Daily Energy: 20.11 KWatt-Hrs  
Total Energy: 954.69 KWatt-Hrs

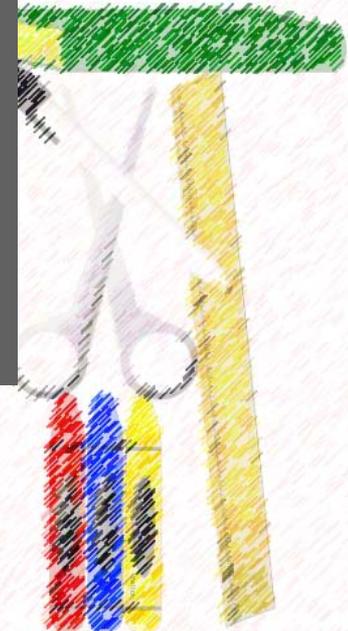
\*\*\* Average Readings for last Ten Minutes \*\*\*  
Avg power: 672.58 Watts  
Avg rpm: 237.27  
Avg wind: 7.00 m/s, 15.66 mph

norris	Average	Maximum	Units
	982.32	4181.00	Power Watts
Period:	248.16	341.00	RPM
month	8.22	36.00	Wind m/s
	205.55	277.30	Volts

norris	Average	Maximum	Units
	330.82	4788.00	Power Watts
Period:	120.65	358.00	RPM
year	3.83	43.00	Wind m/s
	108.64	310.40	Volts

Real Time Charts  
Get Turbine Data  
Interactive Chart

<http://wind-for-schools.caesenergy.org>



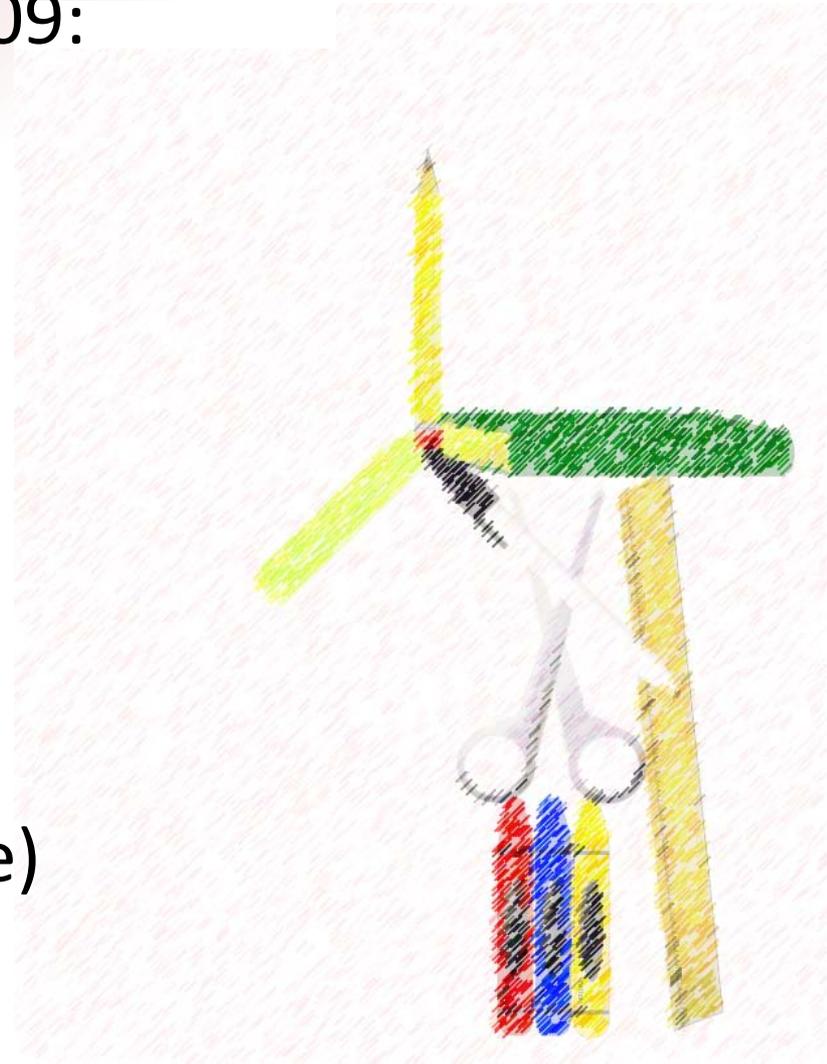
# Progress Report

Since NE Wind Conference 2009:

- Installed 6 Wind Turbines
- Installed 3 MET Towers
- Data-Sharing Software

Repairs:

- 1 New Circuit Board
- 1 New Alternator
- 1 New Turbine (Power Surge)
- 1 TBD Problem



# Winter Activities

- Weather Permitting– 5 Curing Foundations
- Add All Sites Online
- Finish Remaining Permitting
- 1 MET Tower
- Science Teacher Training
  - Next March? Kearney, NE



# Contact Information

Joel Jacobs

[jjacobs2@unl.edu](mailto:jjacobs2@unl.edu)

402-472-7958

N209 SEC

PO Box 880511

Lincoln, NE 68588-0511

