

116° 114° 112° 110° 108° 106° 104°

48°

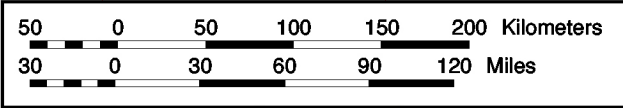
48°

46°

44°

- Indian Reservation**
- 1 Flathead
 - 2 Blackfeet
 - 3 Rocky Boy
 - 4 Fort Belknap
 - 5 Fort Peck
 - 6 N. Cheyenne
 - 7 Crow

- Transmission Line*
Voltage (kV)**
- < 100
 - 100 - 161
 - 230
 - 500
- *Composite of RDI, Montana Dept. of Environmental Quality, and WAPA data



Wind Power Classification

Wind Power Class	Resource Potential	Wind Power Density at 50 m W/m ²	Wind Speed ^a at 50 m m/s	Wind Speed ^a at 50 m mph
2	Marginal	200 - 300	5.6 - 6.4	12.5 - 14.3
3	Fair	300 - 400	6.4 - 7.0	14.3 - 15.7
4	Good	400 - 500	7.0 - 7.5	15.7 - 16.8
5	Excellent	500 - 600	7.5 - 8.0	16.8 - 17.9
6	Outstanding	600 - 800	8.0 - 8.8	17.9 - 19.7
7	Superb	> 800	> 8.8	> 19.7

^aWind speeds are approximate and based on a Weibull k value of 2.0

Montana Wind Power Resource Estimates

The wind power resource estimates were produced by TrueWind Solutions using their Mesomap system and historical weather data. This map has been validated with available surface data by the National Renewable Energy Laboratory and wind energy meteorological consultants.

U.S. Department of Energy
National Renewable Energy Laboratory



15-MAR-2002 1.1.1