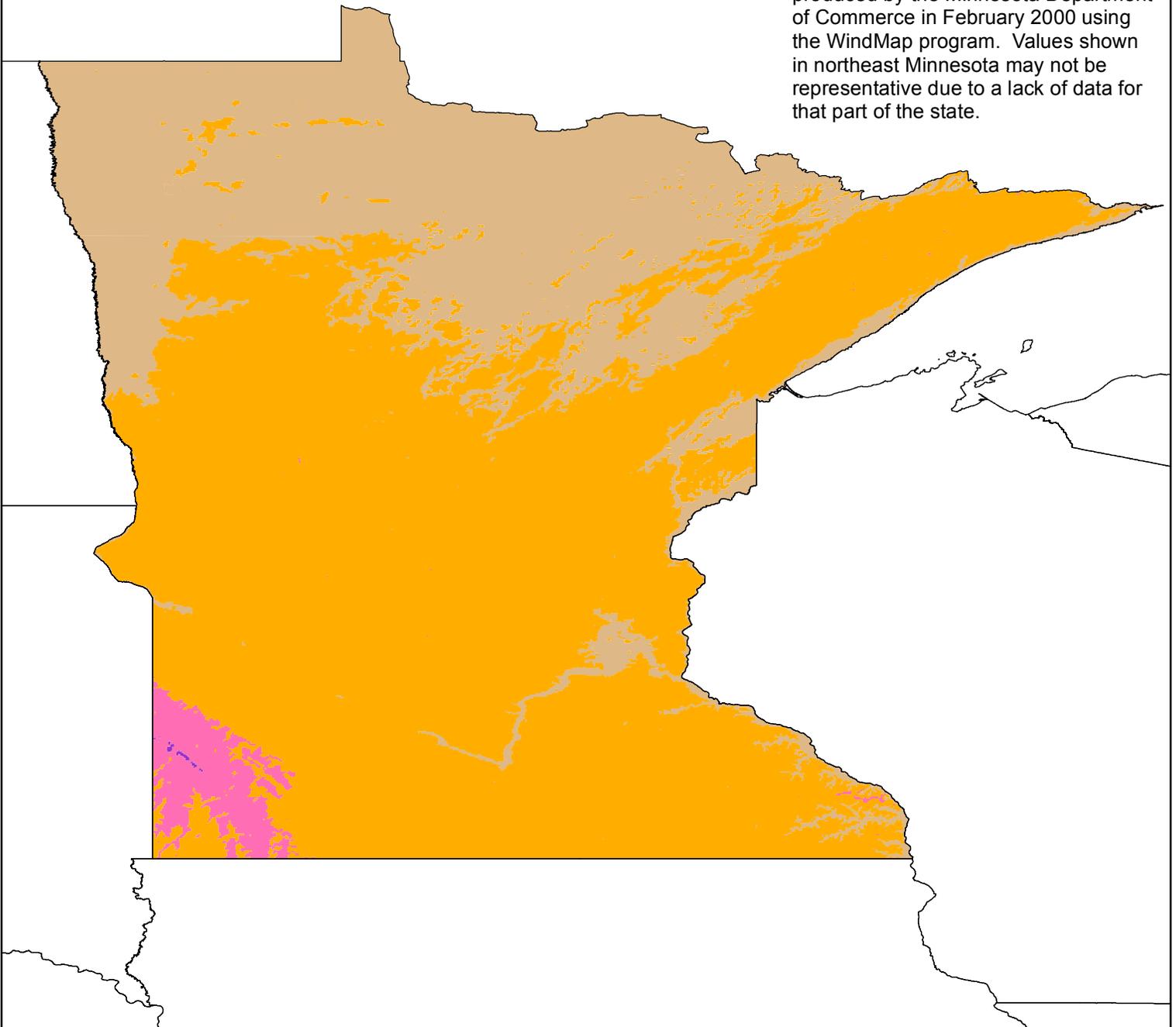


Minnesota - Annual Wind Power at 50-m Height

This wind resource assessment was produced by the Minnesota Department of Commerce in February 2000 using the WindMap program. Values shown in northeast Minnesota may not be representative due to a lack of data for that part of the state.



Wind Power Classification

Wind Power Class	Resource Potential	Wind Power Density at 50m W/m ²	Wind Speed ^a at 50 m m/s	Wind Speed ^a at 50 m mph
1	Poor	0 - 200	0.0 - 5.6	0.0 - 12.5
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 based on a Weibull k value of 2.0



This map was produced by the National Renewable Energy Laboratory for the U.S. Department of Energy.
June 25, 2012