



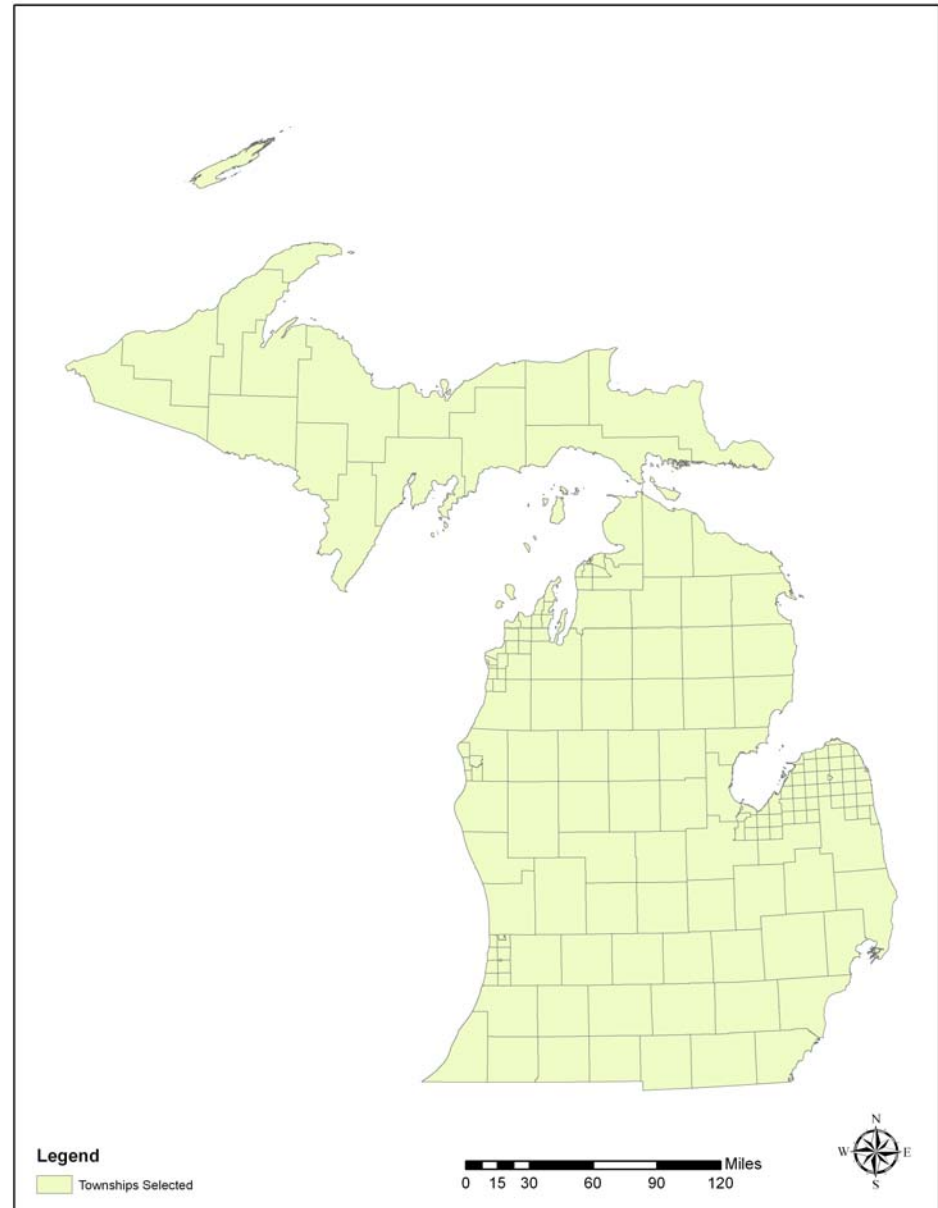
Zone Selection Rubric



- Select top tier townships from the 100m wind speed in the 50m area map (5,951 mwh and over per turbine).



- Add nearest neighbors to the current selection until the neighbors drop into below tier two(3,649 mwh/turbine).
- Select one ring of neighbors from the 100m wind speed map, if they are tier 2 or better.

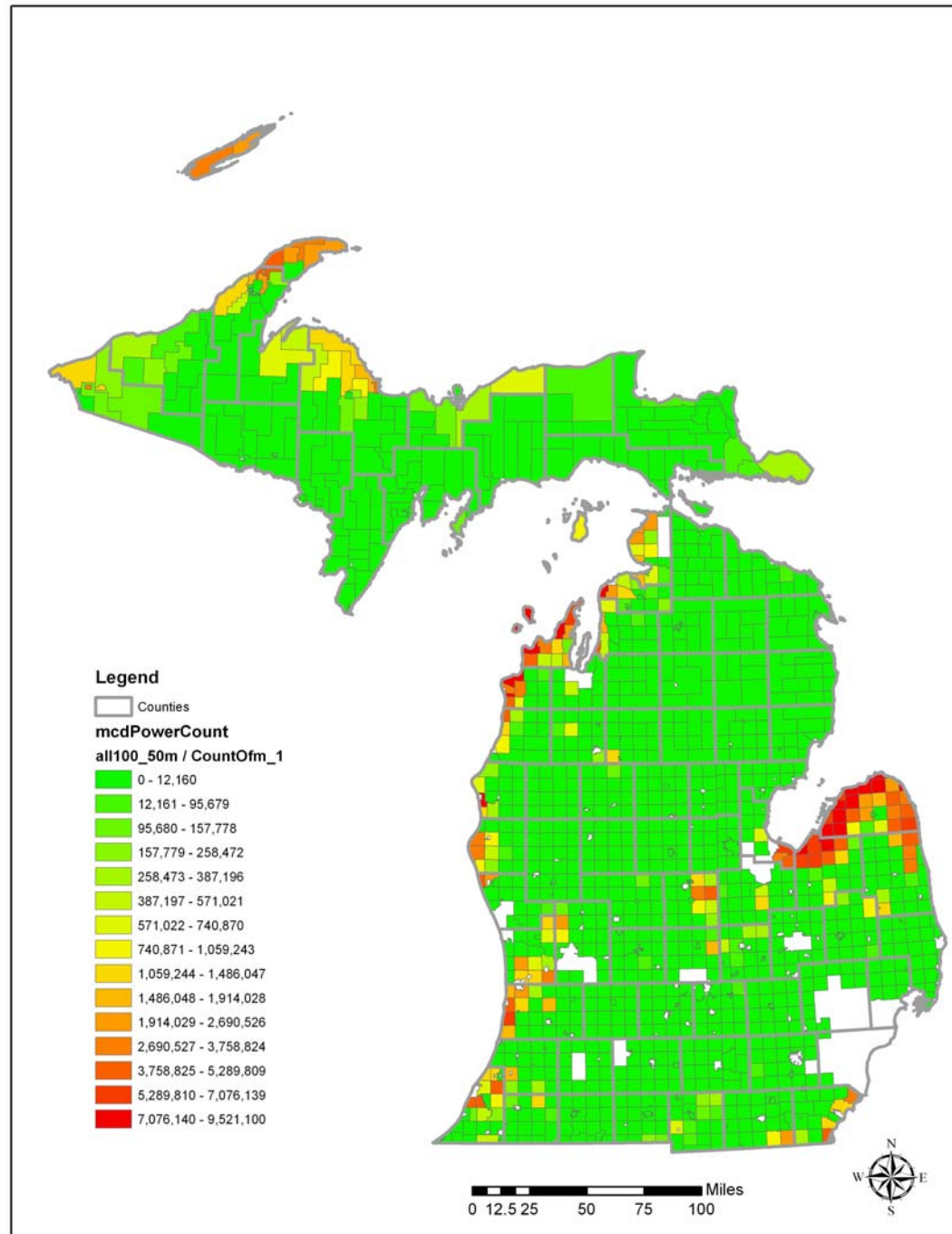




15 Tier Sensitivity



- There was a question as to the sensitivity of the analysis regarding 5 tiers so a 15 tier map was done for discussion.



Turbines/Acre of Open Space

- There was some question of the number of turbines per acre in the analysis so it was tabulated:
 - By Zone
 - By County
 - By Township
- This is restricted to the amount of open space but does not include any other restrictions.

| Zone | Counties | Number of Turbines Possible | Acres Per Tower |
|------|------------|-----------------------------|-----------------|
| 1 | ALLEGAN | 872 | 191.8401699 |
| 2 | ANTRIM | 2861 | 185.6945886 |
| | BENZIE | | |
| | CHARLEVOIX | | |
| | LEELANAU | | |
| | MANISTEE | | |
| 3 | HURON | 8307 | 124.7364826 |
| | BAY | | |
| | SAGINAW | | |
| | SANILAC | | |
| | TUSCOLA | | |



Policy Drivers in the market

- Policy has driven the wind market in the US.
- To estimate how much of the actual potential will be built we looked at :
 - Policy drivers
 - How much wind energy they will require
- Then scaled back the analysis proportionately to reflect what the market is potentially going to demand.
- The Scenarios are:
 - Michigan's RPS
 - Michigan's RPS X 2

| Zone | Counties | Plate Capacity (MWh) RPS | Annual Estimated KWh RPS | Towers RPS | RPS X 2 Aggressive Scenario Plate Capacity (MWh) | RPS X 2 Annual Estimated KWh | Towers RPS x2 |
|------|------------|--------------------------|--------------------------|------------|--|------------------------------|---------------|
| 1 | ALLEGAN | 184.2919697 | 554639.1302 | 123 | 368.5839394 | 1109278.26 | 246 |
| 2 | ANTRIM | 604.6551896 | 1825523.768 | 403 | 1209.310379 | 3651047.535 | 806 |
| | BENZIE | | | | | | |
| | CHARLEVOIX | | | | | | |
| | LEELANAU | | | | | | |
| | MANISTEE | | | | | | |
| 3 | HURON | 1755.634624 | 4986442.292 | 1170 | 3511.269249 | 9972884.584 | 2341 |
| | BAY | | | | | | |
| | SAGINAW | | | | | | |
| | SANILAC | | | | | | |
| | TUSCOLA | | | | | | |

