

# **Future Modeling Platform Base Year Determination**

## **APPENDIX C PM<sub>2.5</sub> ANNUAL 2010-12 DESIGN VALUE MAPS AND 2007-12 ANNUAL and SEASONAL AVERAGE MAPS**

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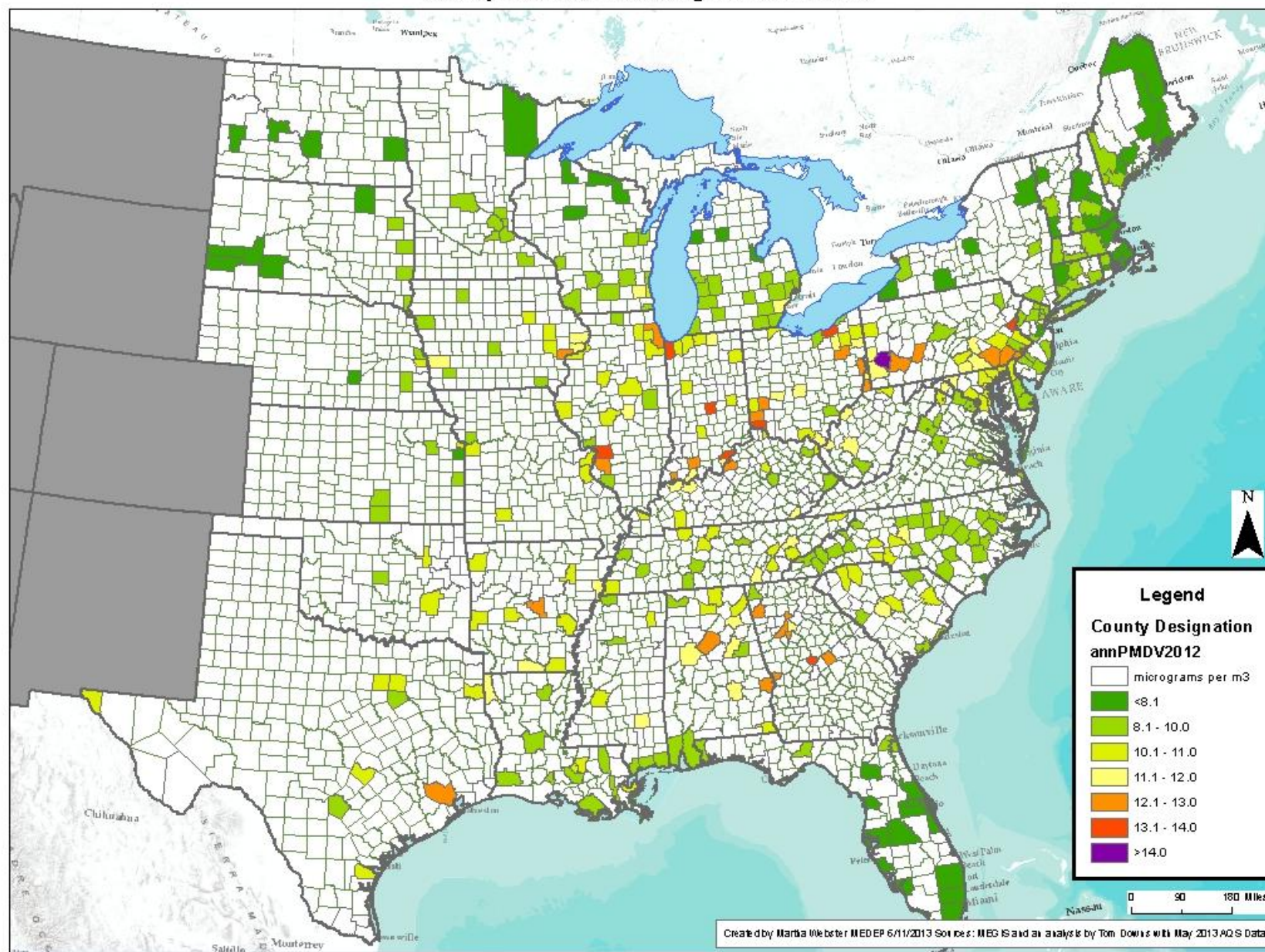
**October 9, 2013 FINAL**

Final certified QA'd 2007-12 FRM/FEM PM<sub>2.5</sub> data (pollutant code 88101) including flagged data were downloaded from EPA's AQS database (May 6, 2013 download) for all states east of the Rocky Mountains except for sites that have been identified not to be used for comparison with the current Annual PM<sub>2.5</sub> NAAQS. Data handling conventions in 40 CFR 50 Appendix N were followed to calculate Annual PM<sub>2.5</sub> Design Values. Figure C-1 shows 2010-12 Annual PM<sub>2.5</sub> Design Values by counties so the Design Value in a county reflects the maximum Design Value of all the monitoring sites in that county.

The following maps are 2007-12 annual and seasonal averages by county for only those counties that have a 2010-12 Annual PM<sub>2.5</sub> Design Value greater than the current 12.0µg/m<sup>3</sup> Annual PM<sub>2.5</sub> NAAQS:

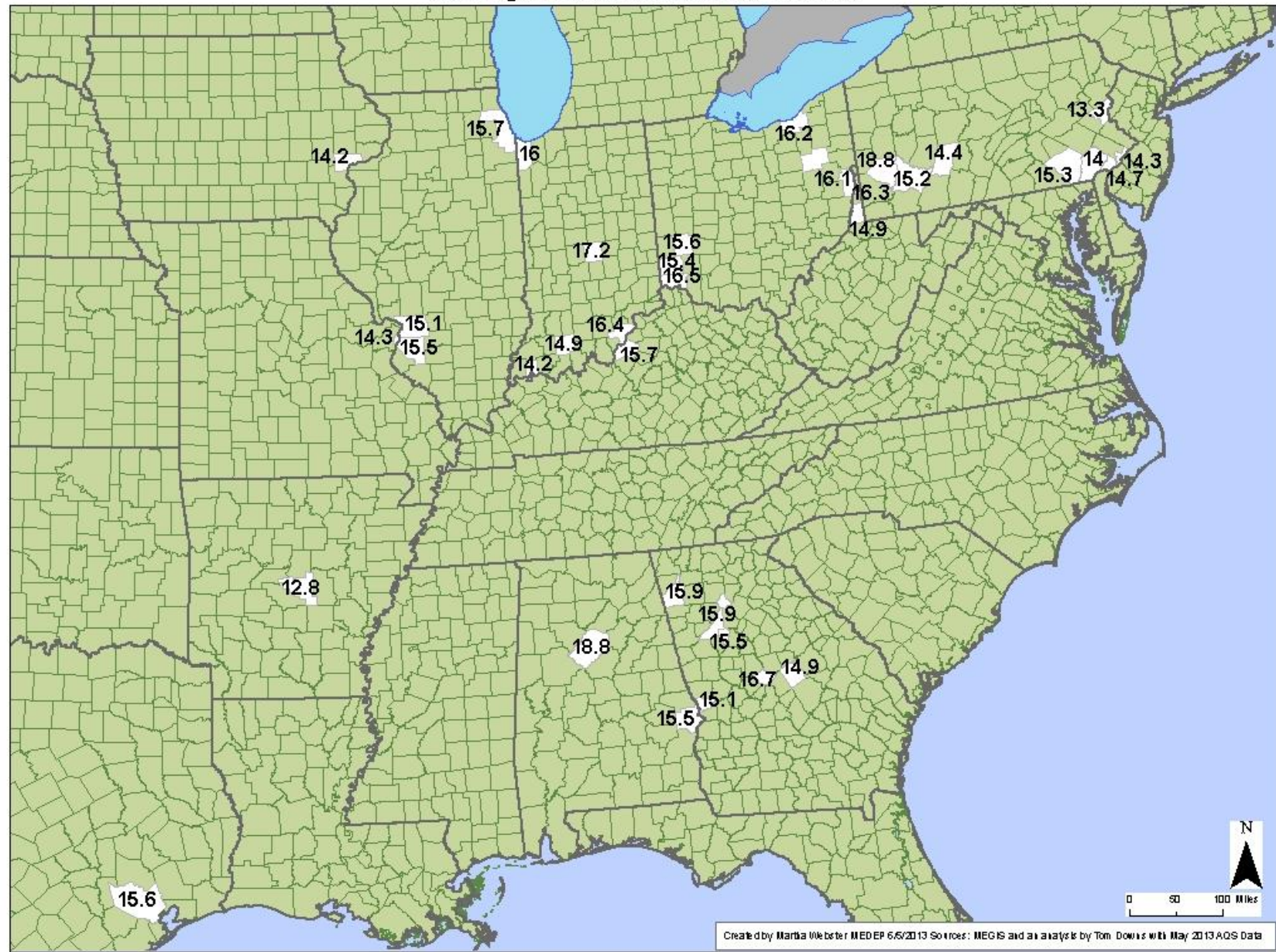
- Figures C-2 to C-7 – Annual averages
- Figures C-8 to C-13 – Winter (January, February and December) averages
- Figures C-14 to C-19 – Spring (March – May) averages
- Figures C-20 to C-25 – Summer (June – August) averages
- Figures C-26 to C-31 – Fall/Autumn (September – November) averages

**FIGURE C-1:**  
County PM 2.5 Annual Design Values 2010-12



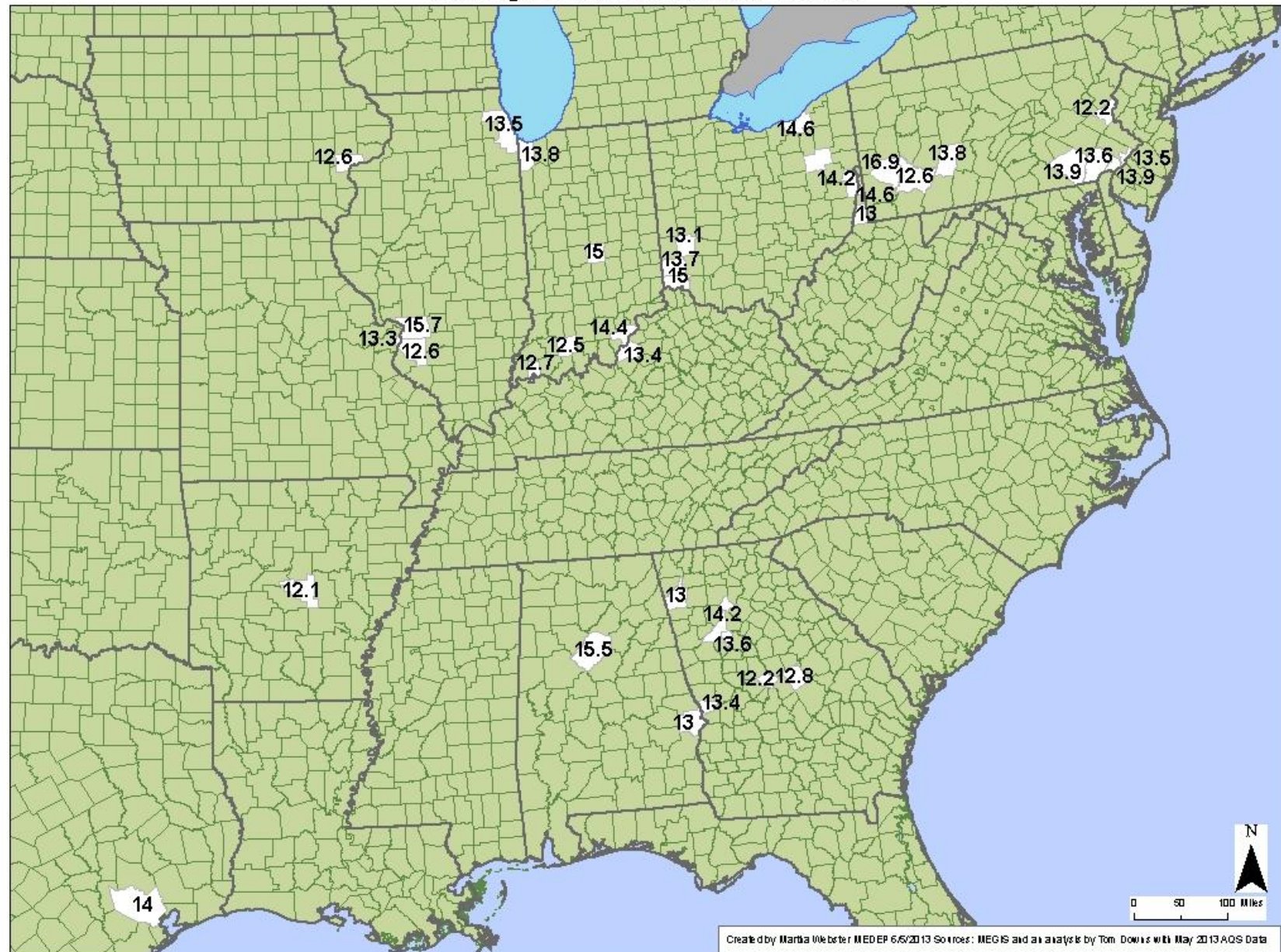


**FIGURE C-2:**  
Violating Counties PM 2.5 2007 Annual Ave.



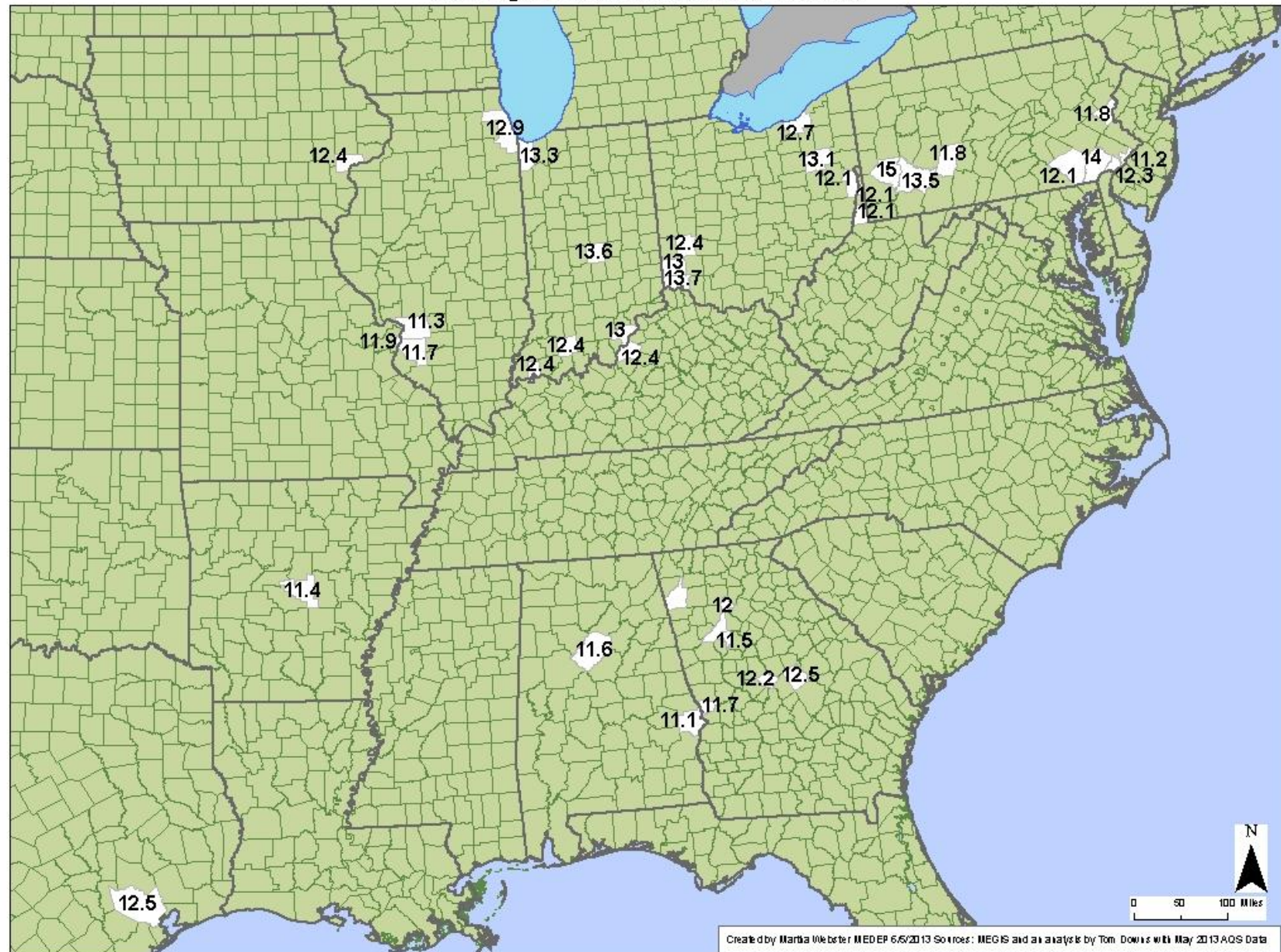


**FIGURE C-3:**  
Violating Counties PM 2.5 2008 Annual Ave.



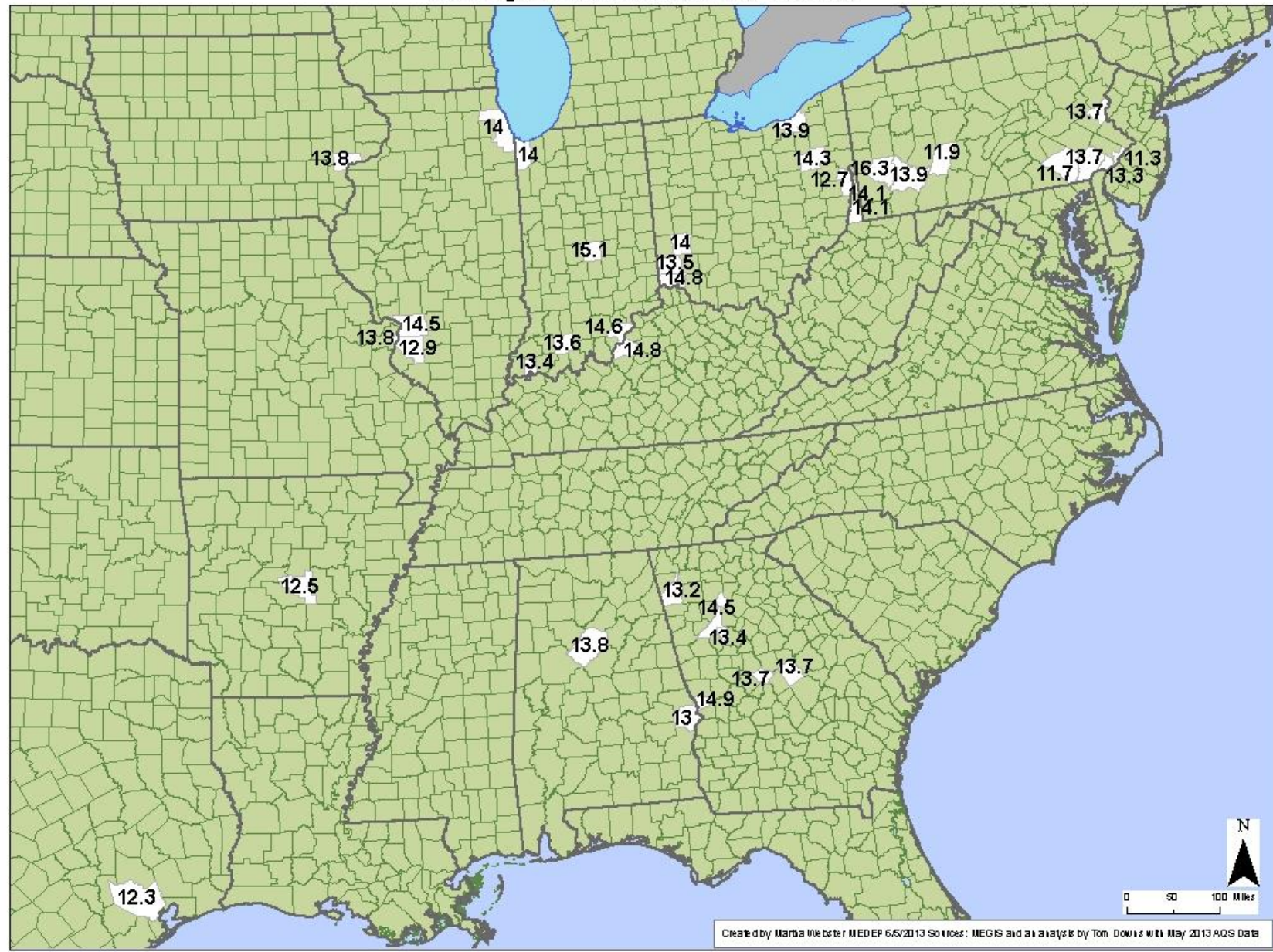


**FIGURE C-4:**  
Violating Counties PM 2.5 2009 Annual Ave.



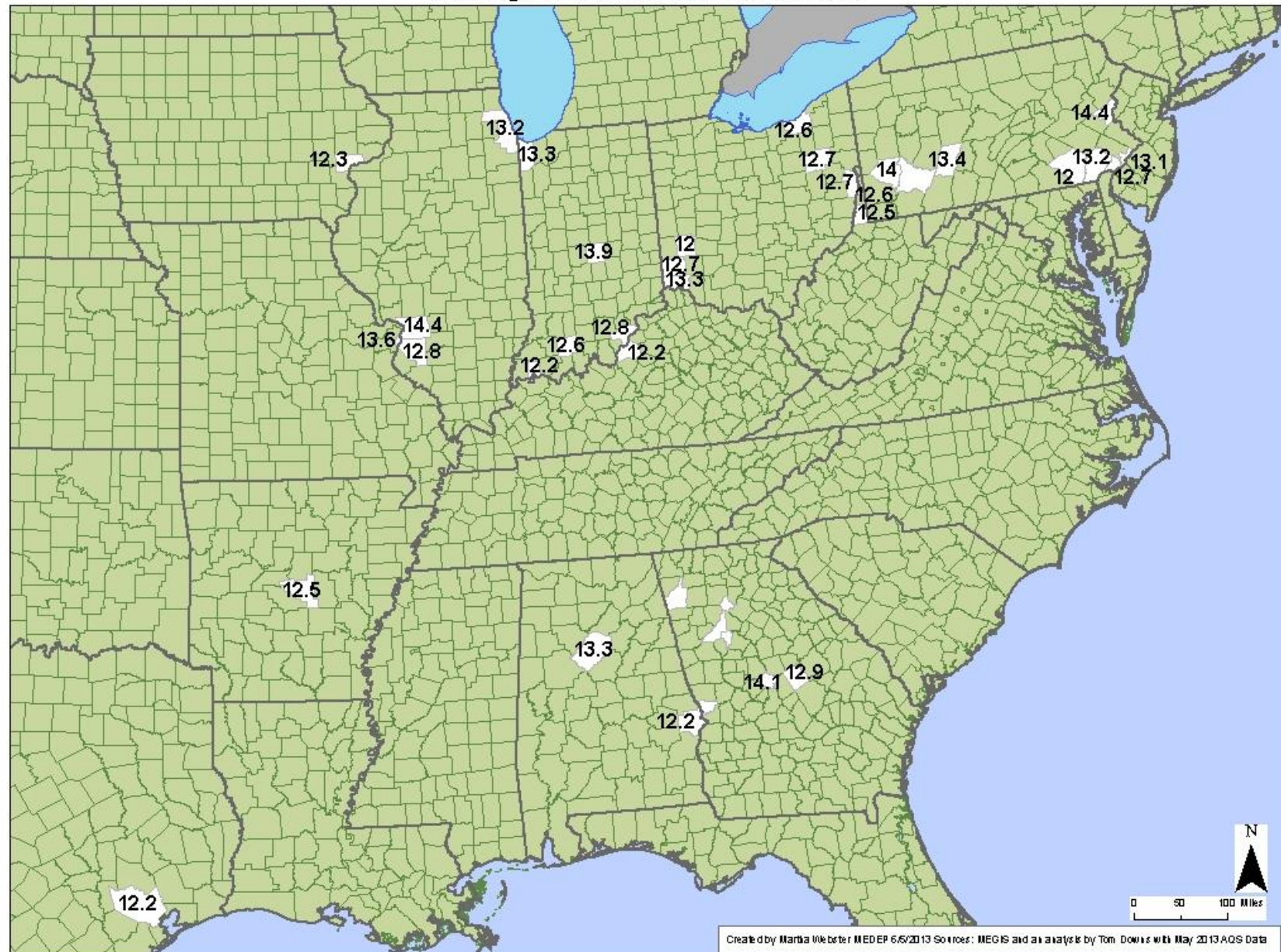


**FIGURE C-5:**  
Violating Counties PM 2.5 2010 Annual Ave.





**FIGURE C-6:**  
Violating Counties PM 2.5 2011 Annual Ave.

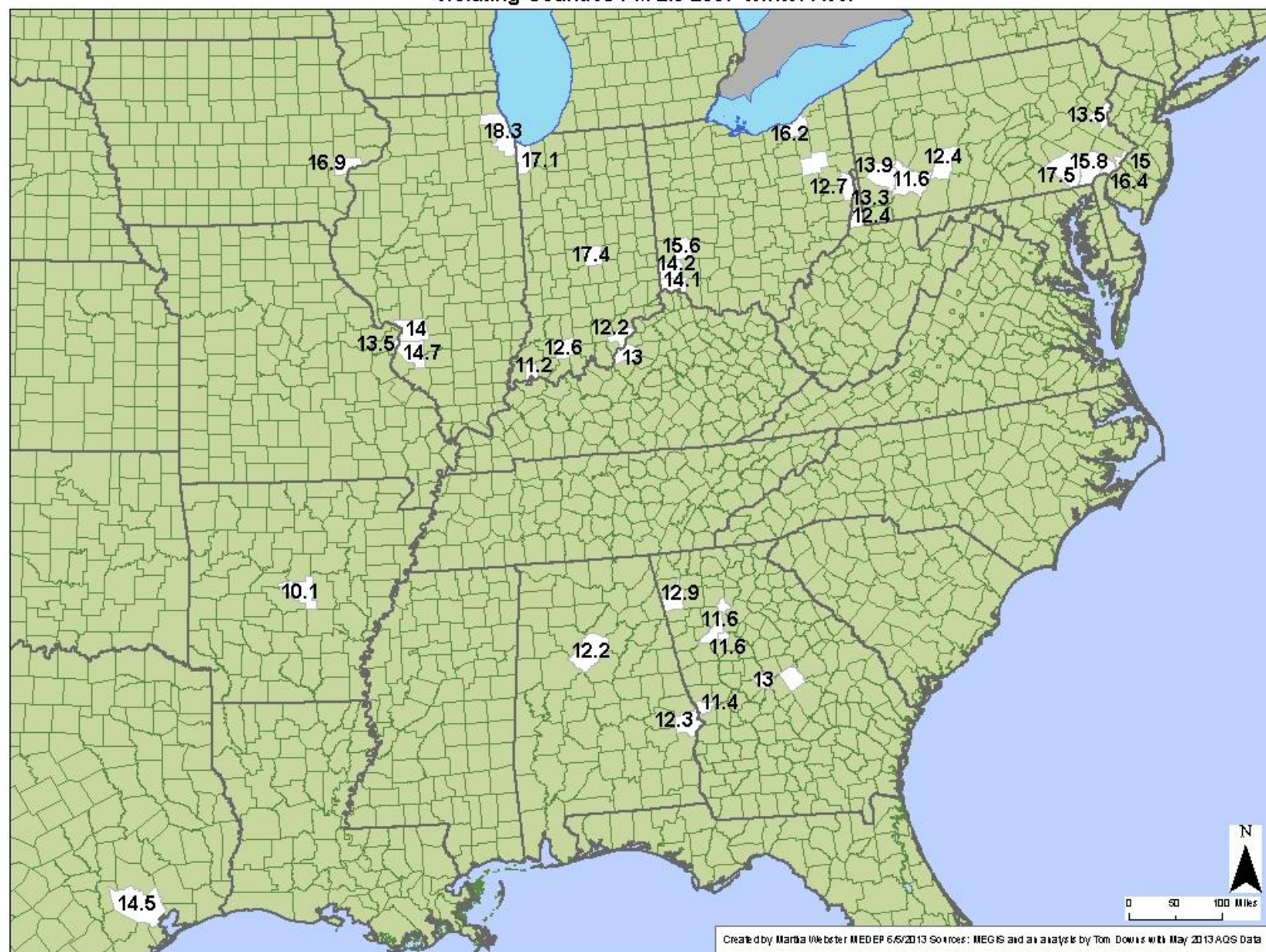






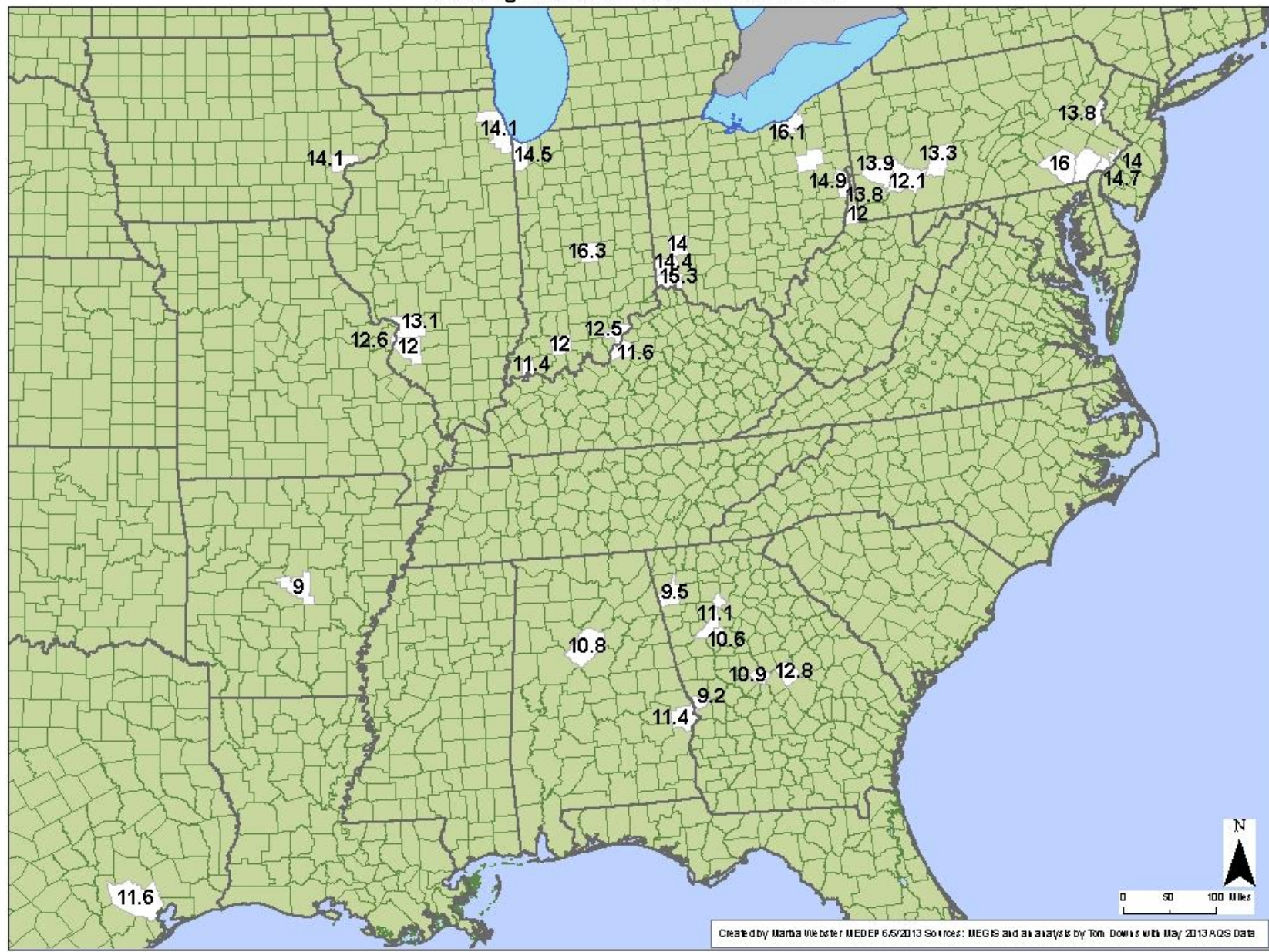


**FIGURE C-8:**  
Violating Counties PM 2.5 2007 Winter Ave.





**FIGURE C-9:**  
Violating Counties PM 2.5 2008 Winter Ave.

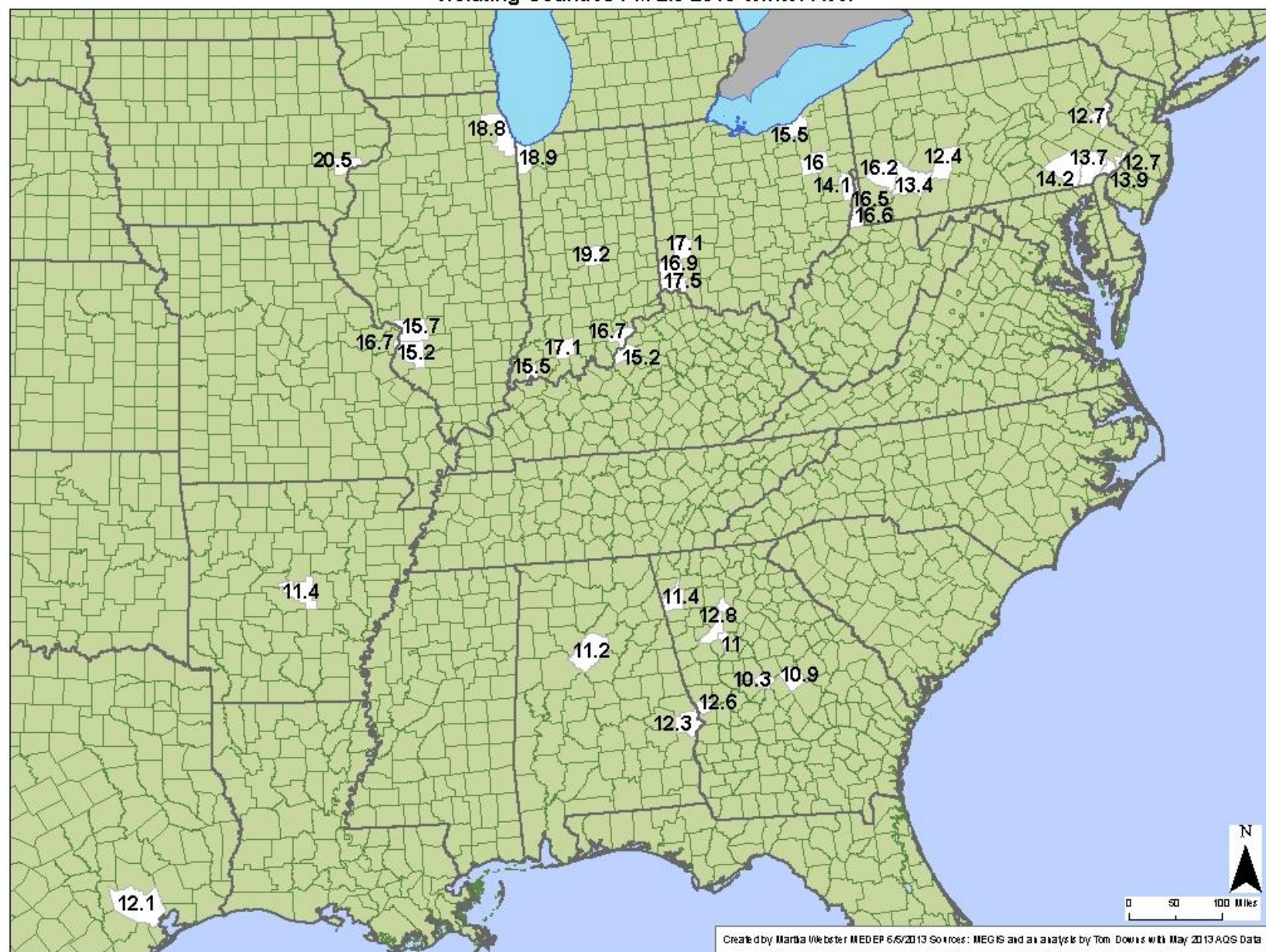






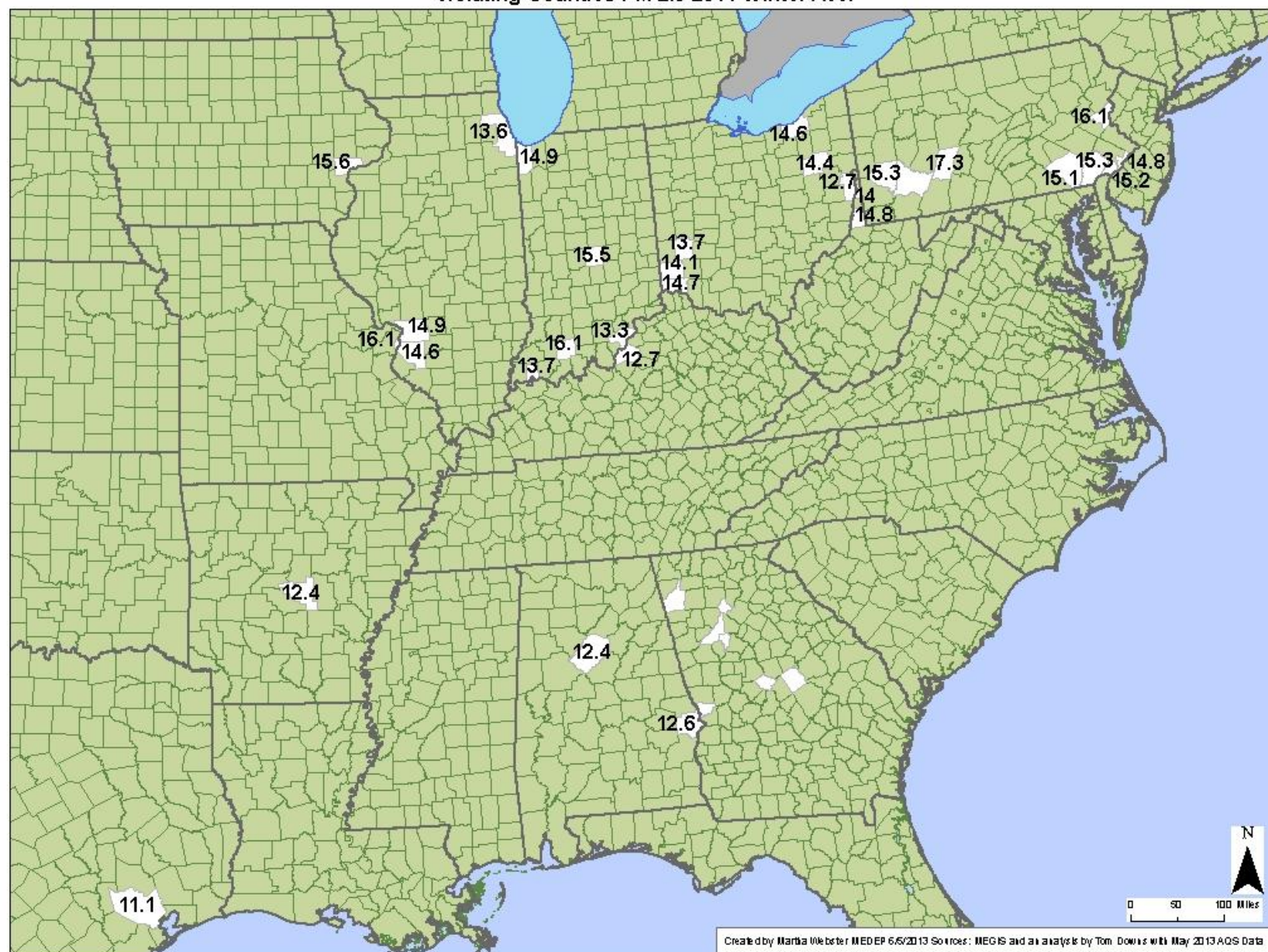


**FIGURE C-11:**  
Violating Counties PM 2.5 2010 Winter Ave.



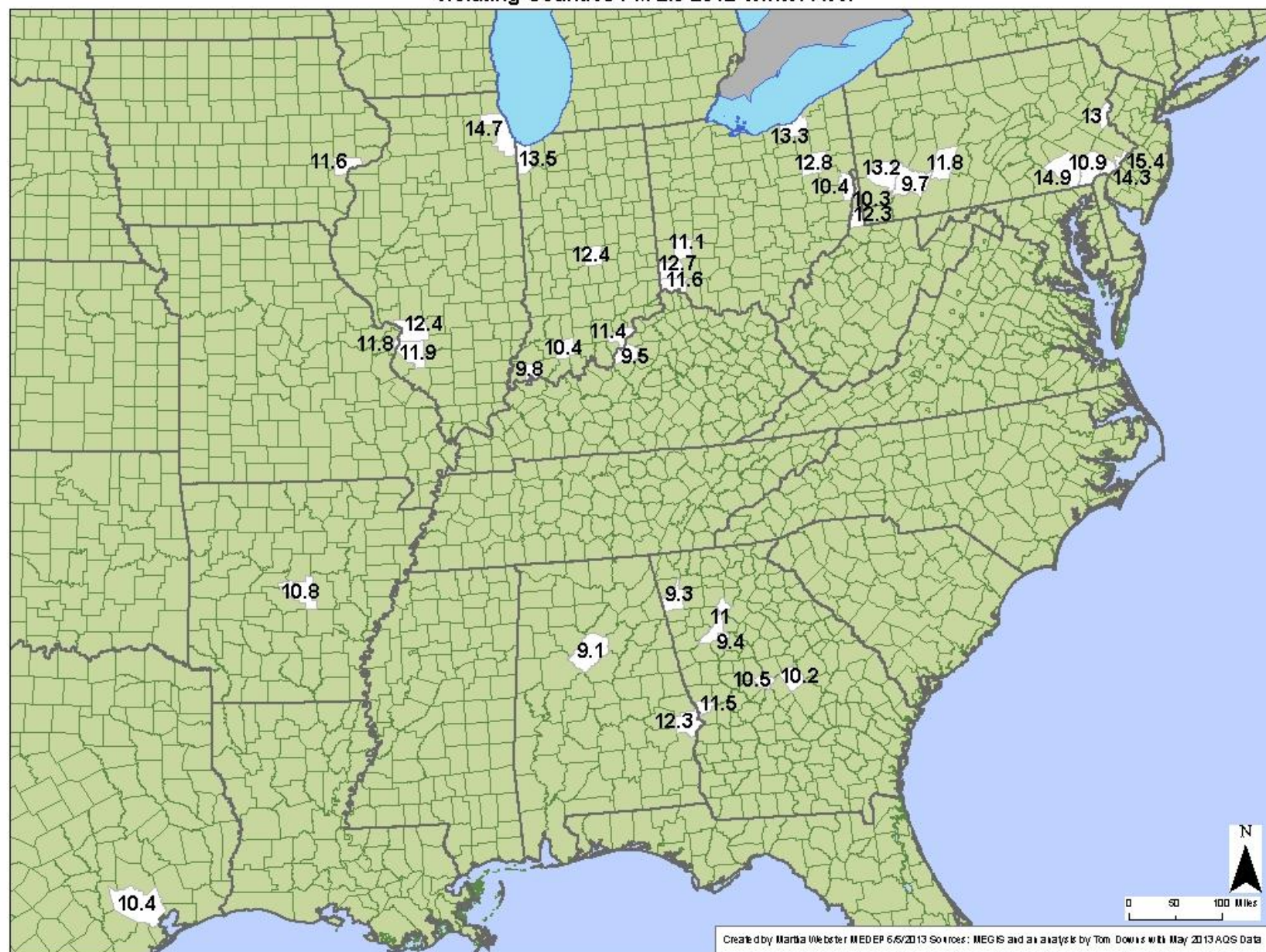


**FIGURE C-12:**  
Violating Counties PM 2.5 2011 Winter Ave.



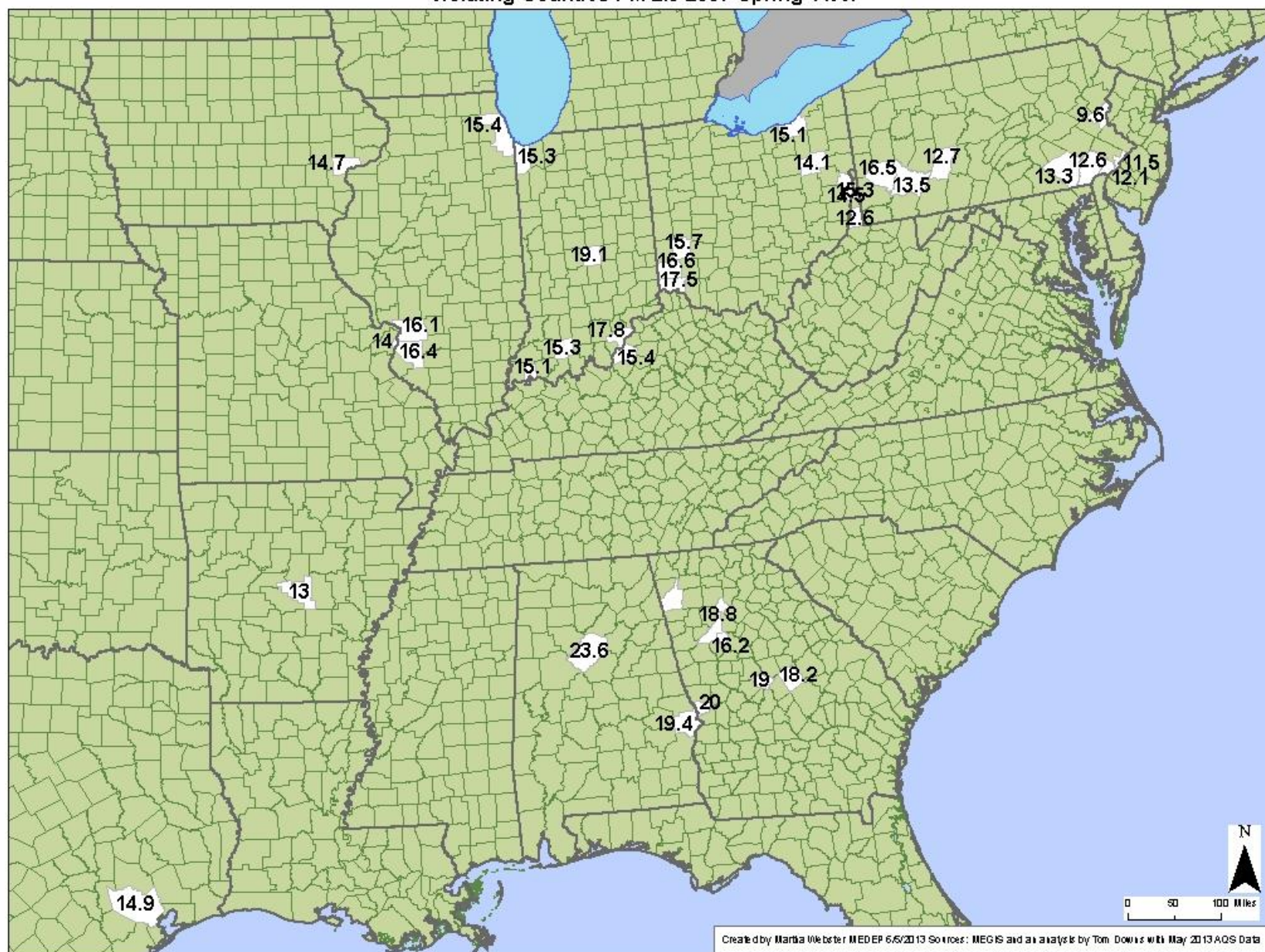


**FIGURE C-13:**  
Violating Counties PM 2.5 2012 Winter Ave.



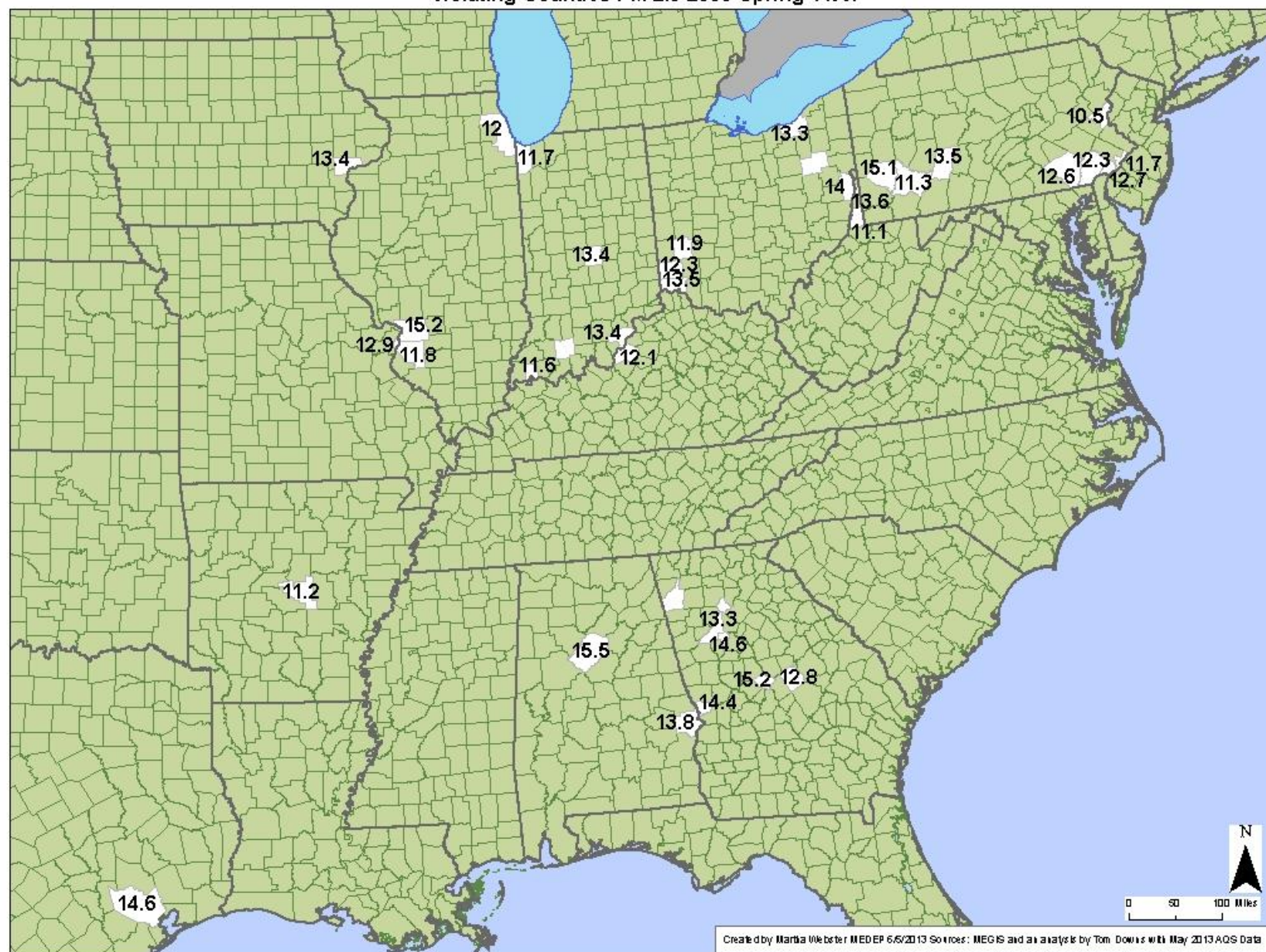


**FIGURE C-14:**  
Violating Counties PM 2.5 2007 Spring Ave.



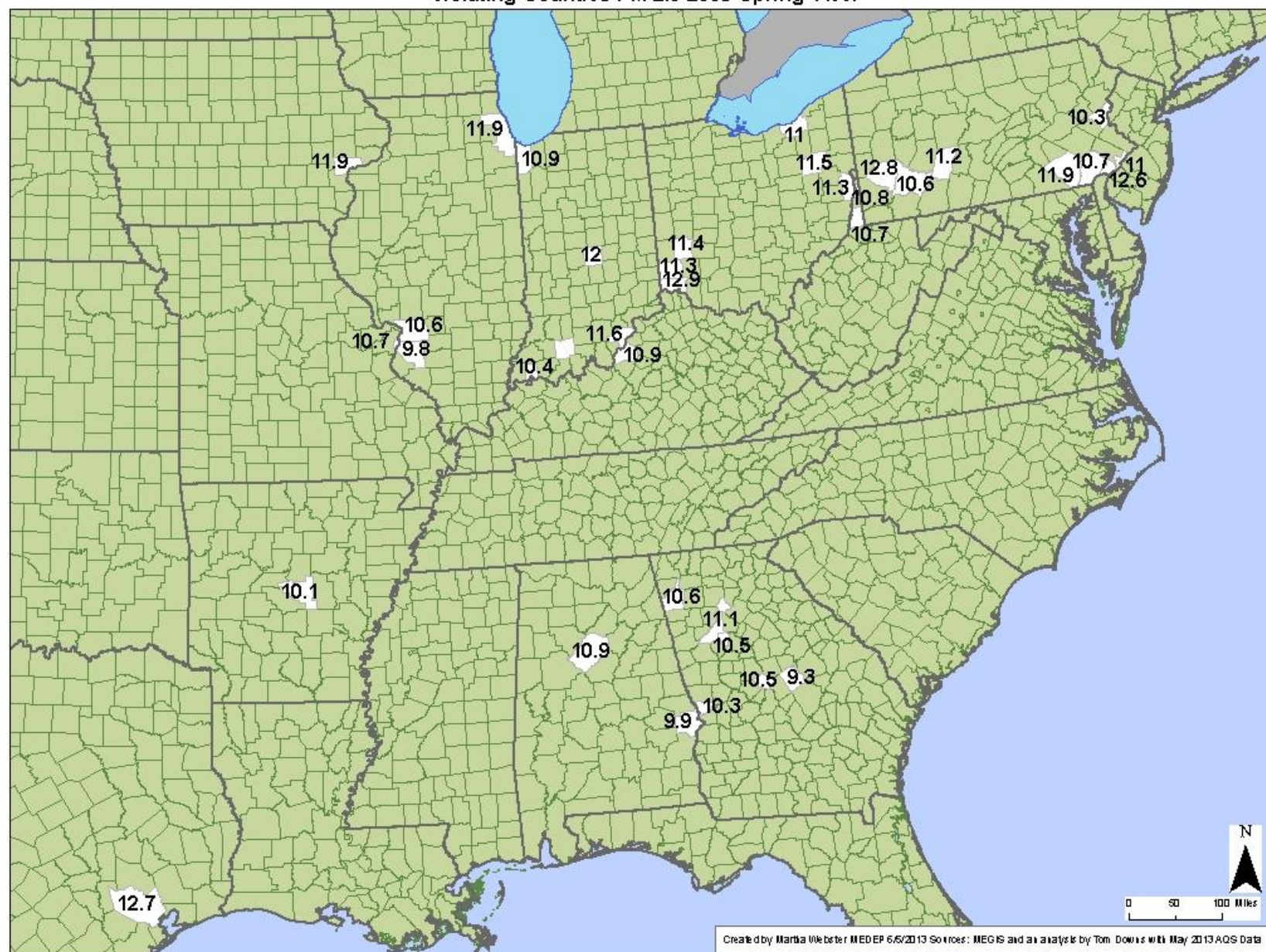


**FIGURE C-15:**  
Violating Counties PM 2.5 2008 Spring Ave.





**FIGURE C-16:**  
Violating Counties PM 2.5 2009 Spring Ave.

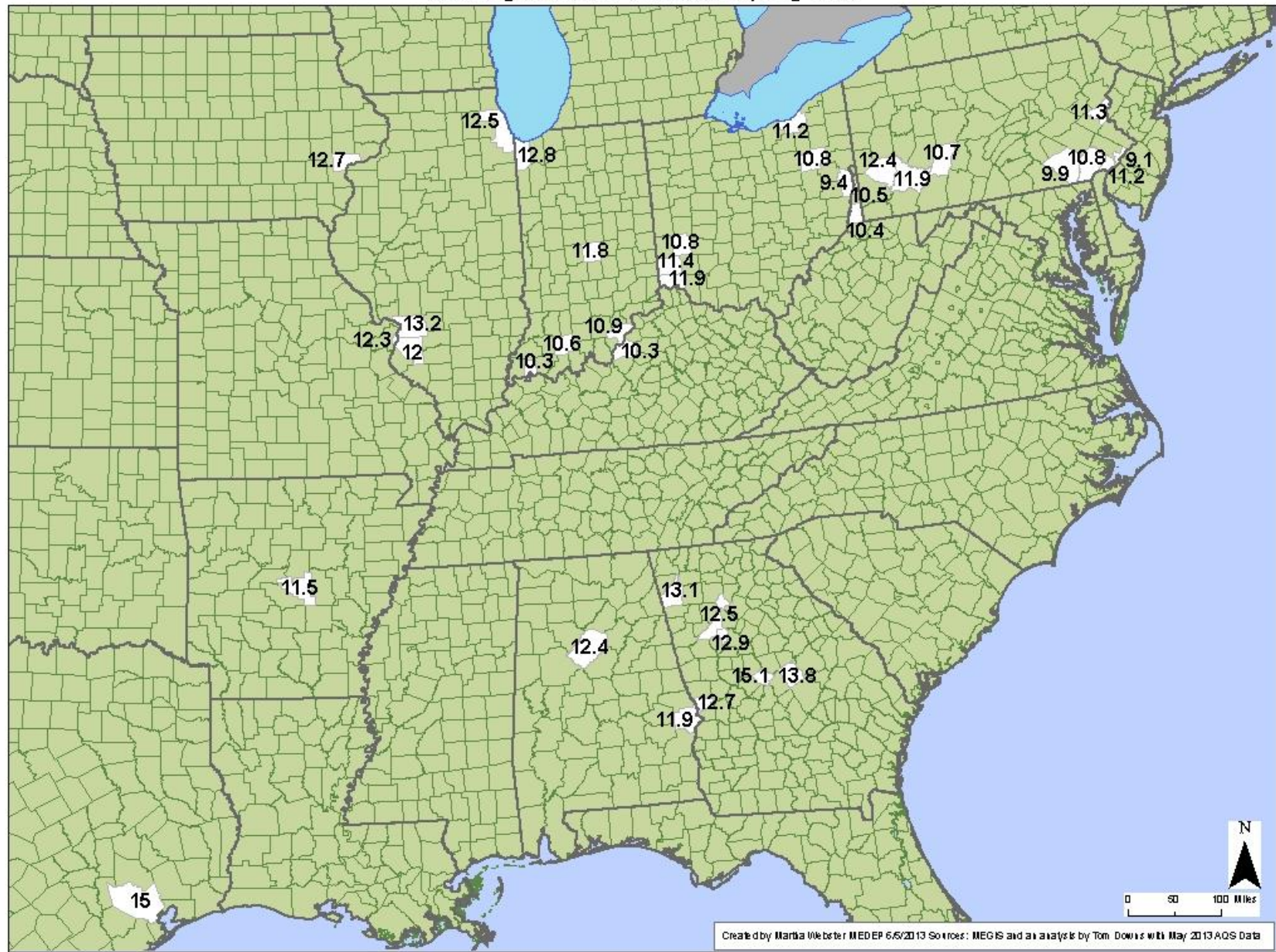






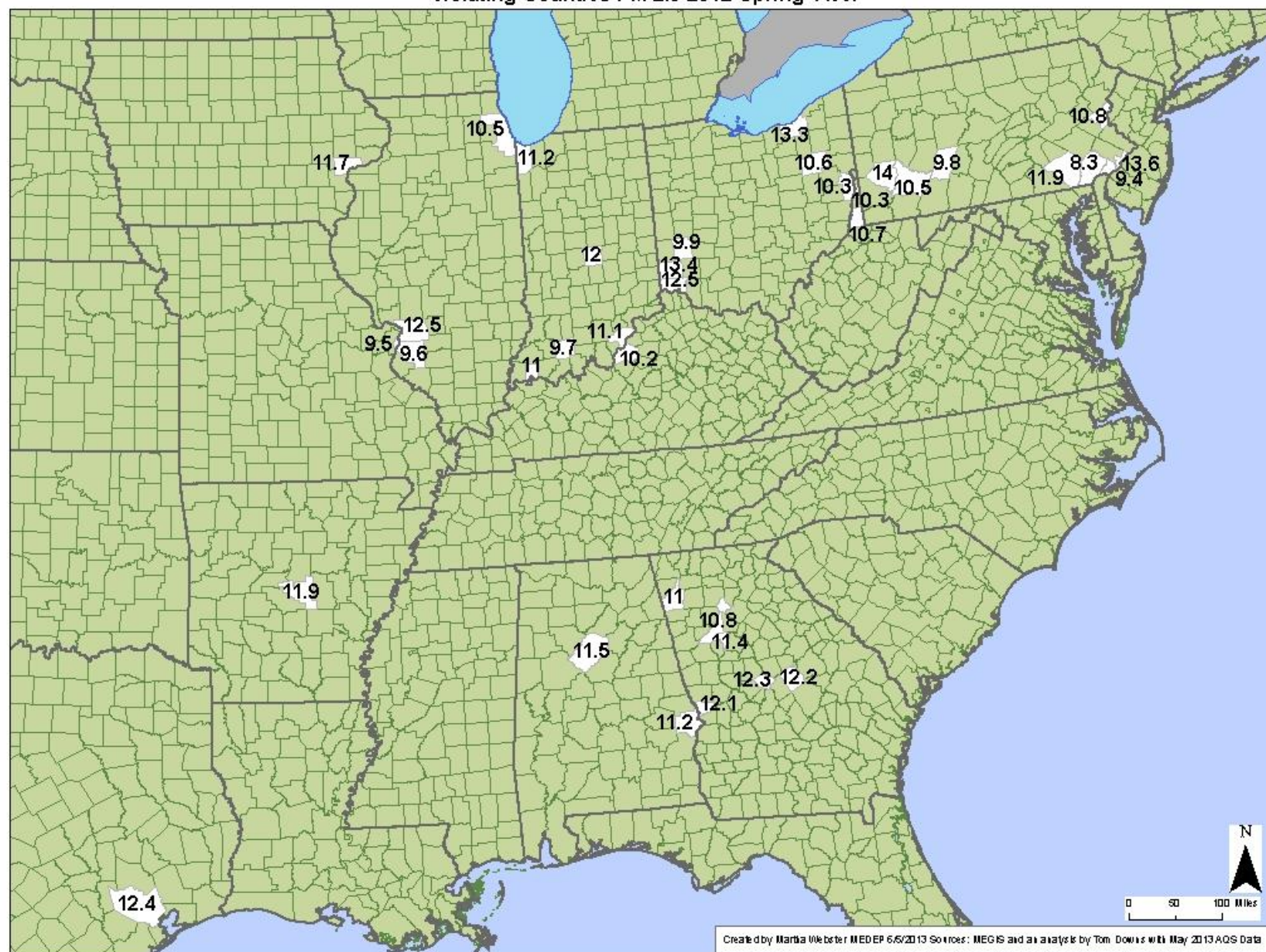


**FIGURE C-18:**  
Violating Counties PM 2.5 2011 Spring Ave.





**FIGURE C-19:**  
Violating Counties PM 2.5 2012 Spring Ave.

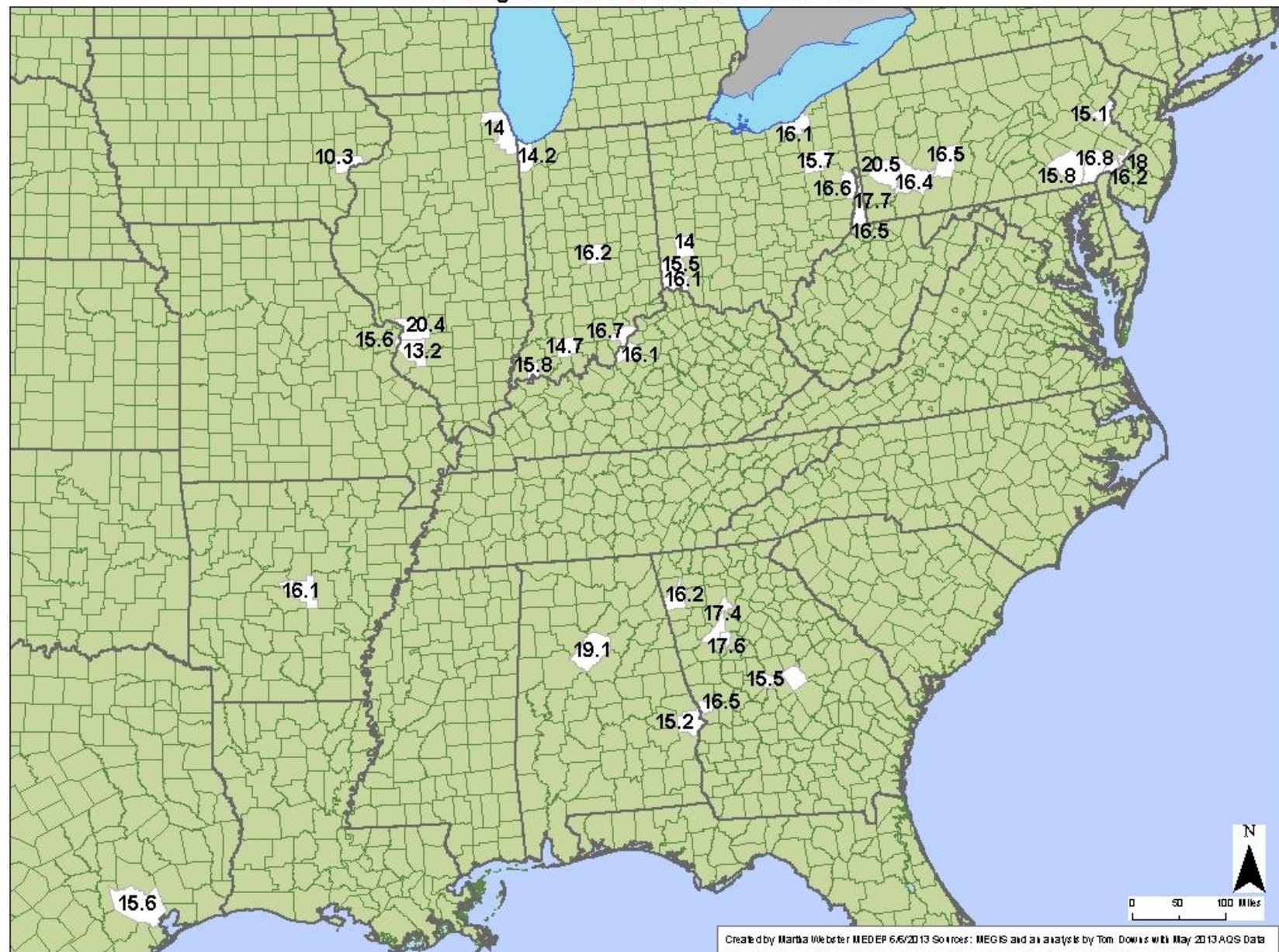






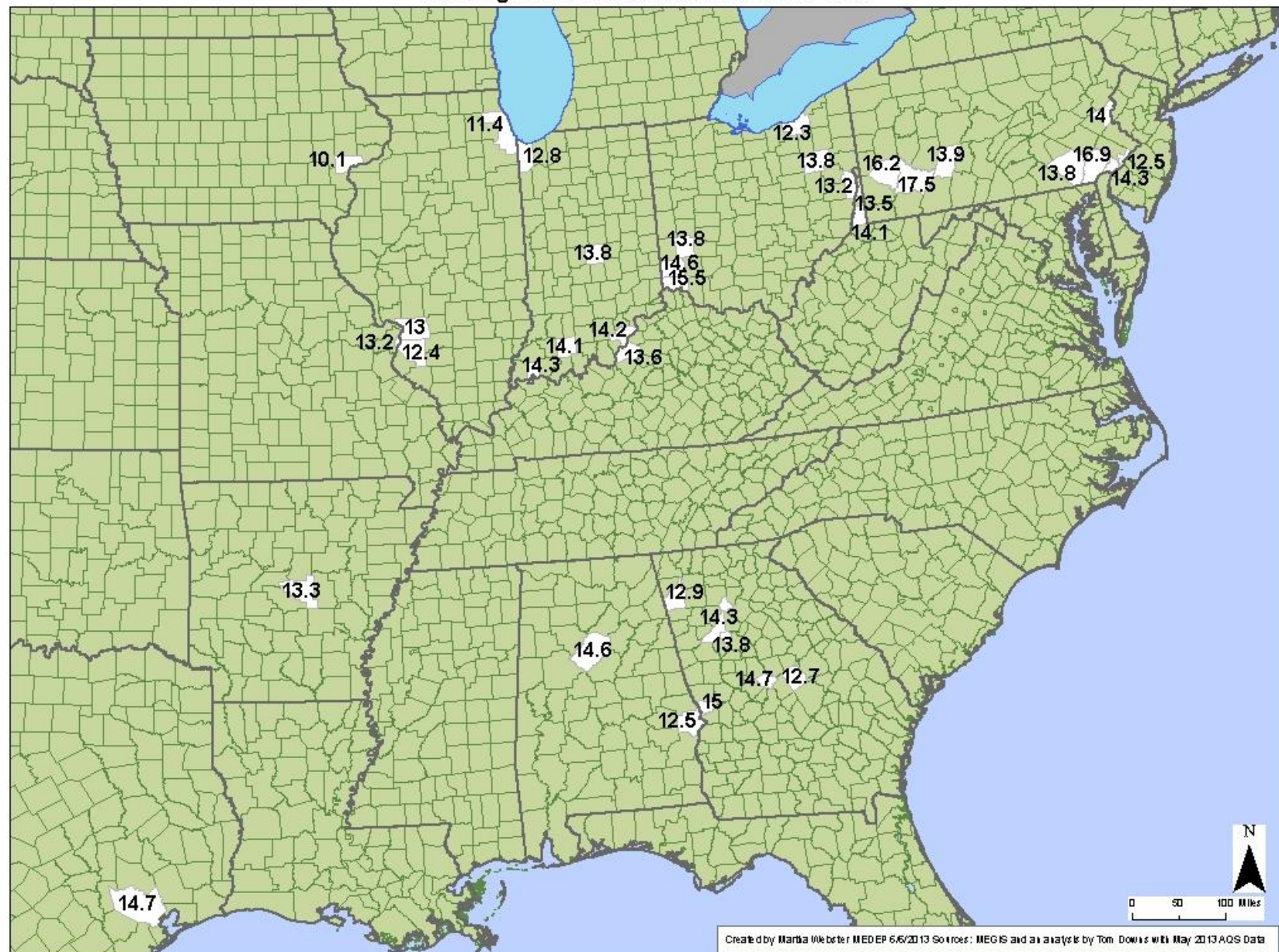


**FIGURE C-21:**  
Violating Counties PM 2.5 2008 Summer Ave.



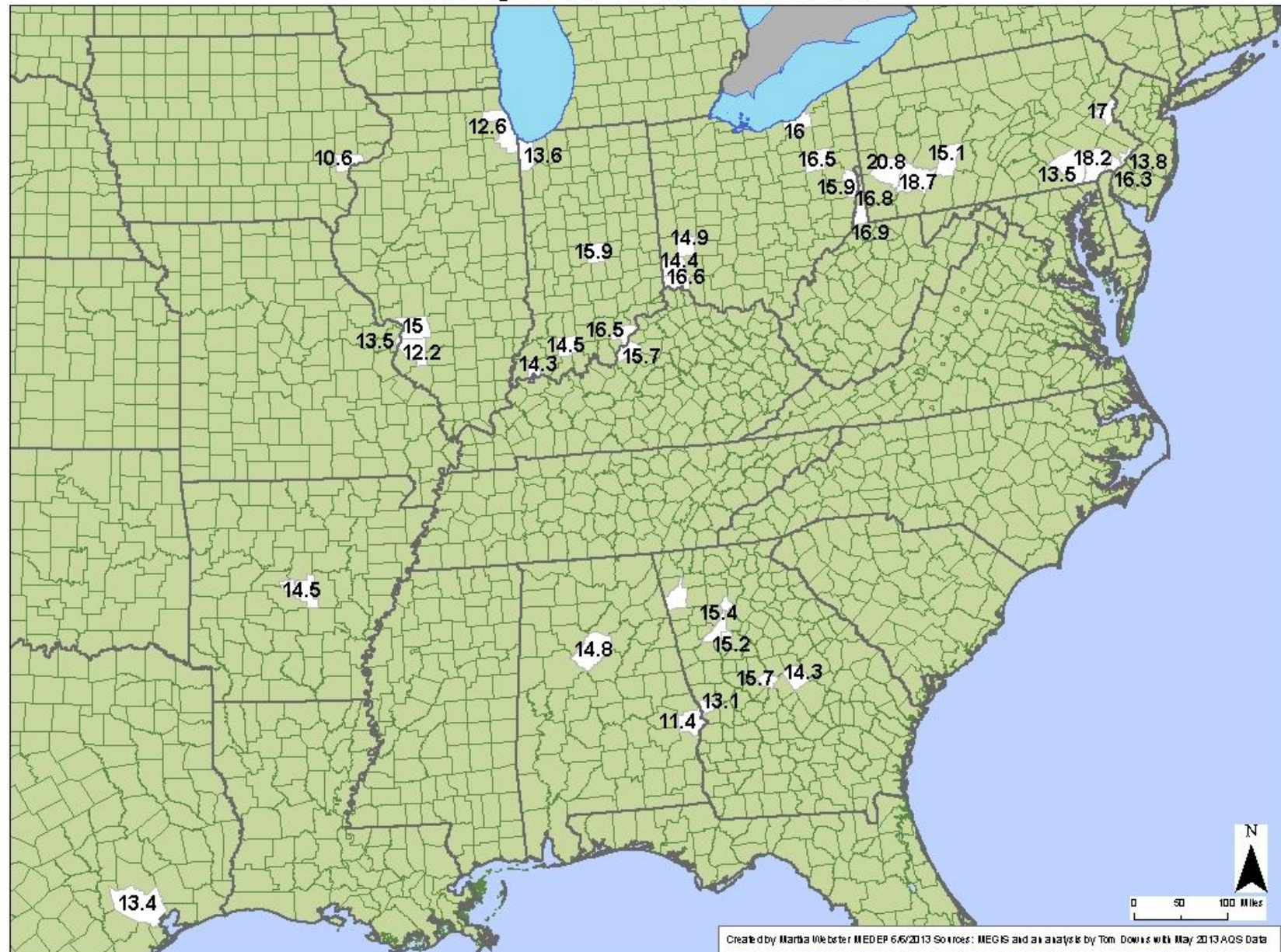


**FIGURE C-22:**  
Violating Counties PM 2.5 2009 Summer Ave.



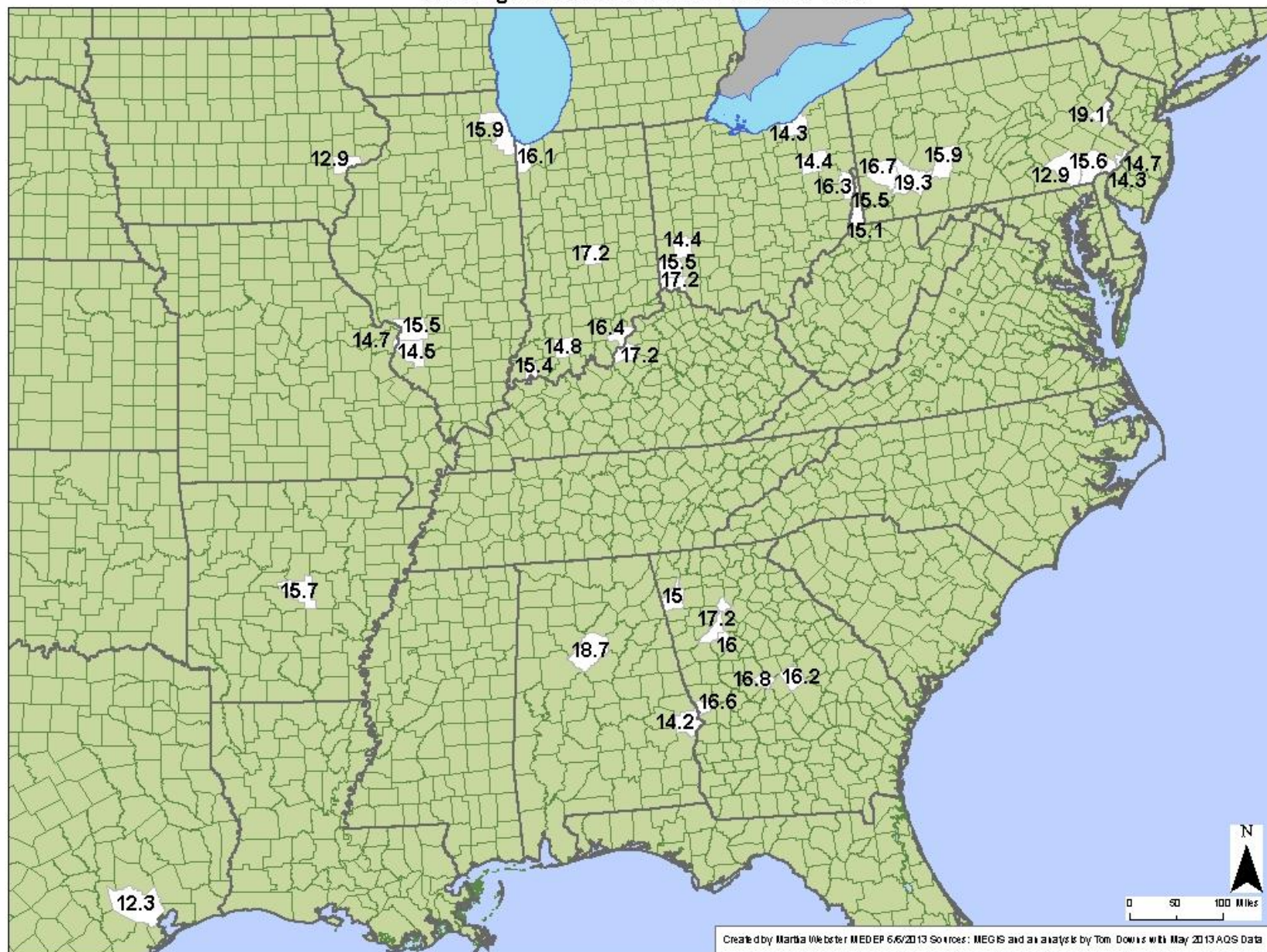


**FIGURE C-23:**  
Violating Counties PM 2.5 2010 Summer Ave.



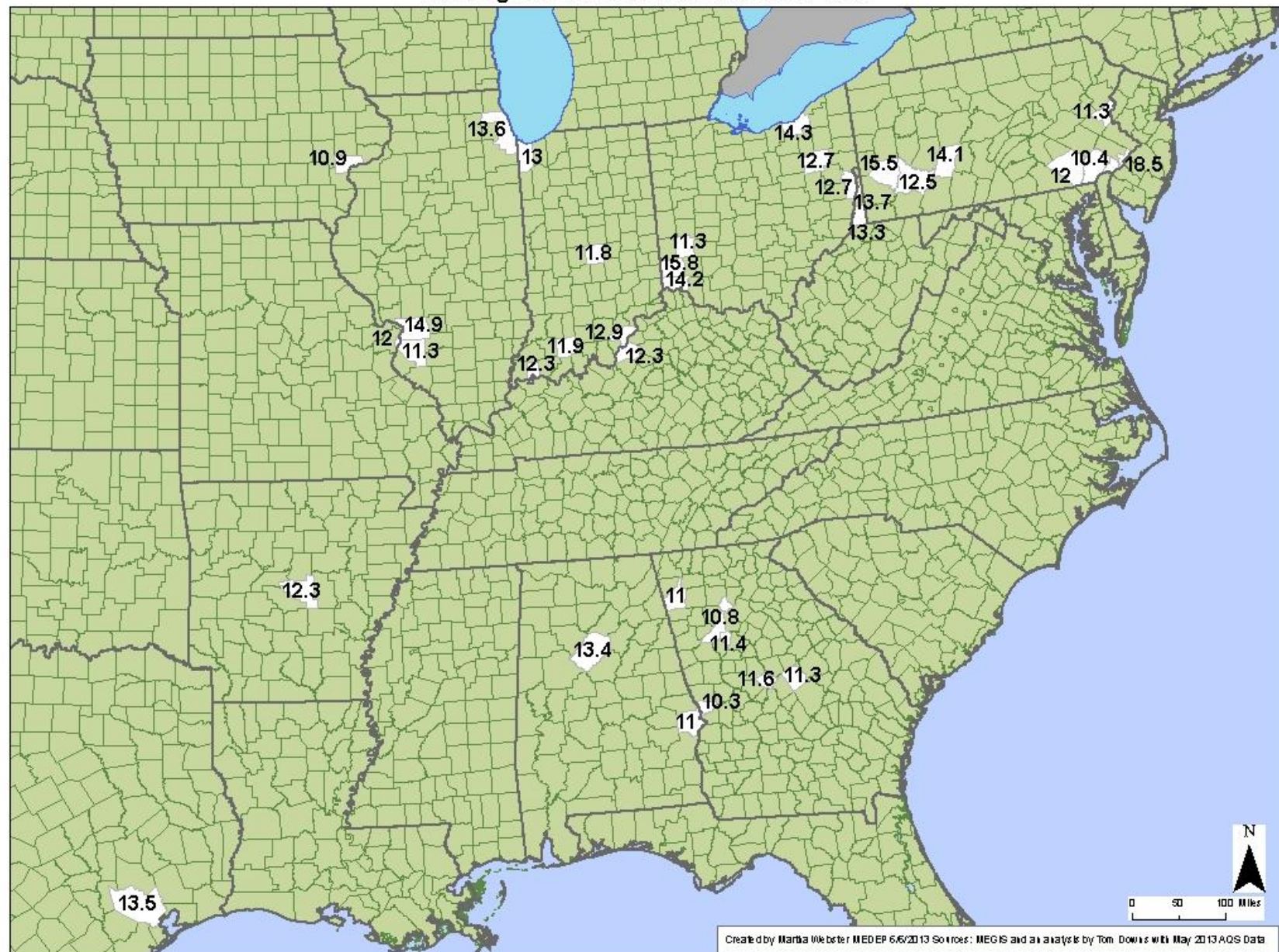


**FIGURE C-24:**  
Violating Counties PM 2.5 2011 Summer Ave.



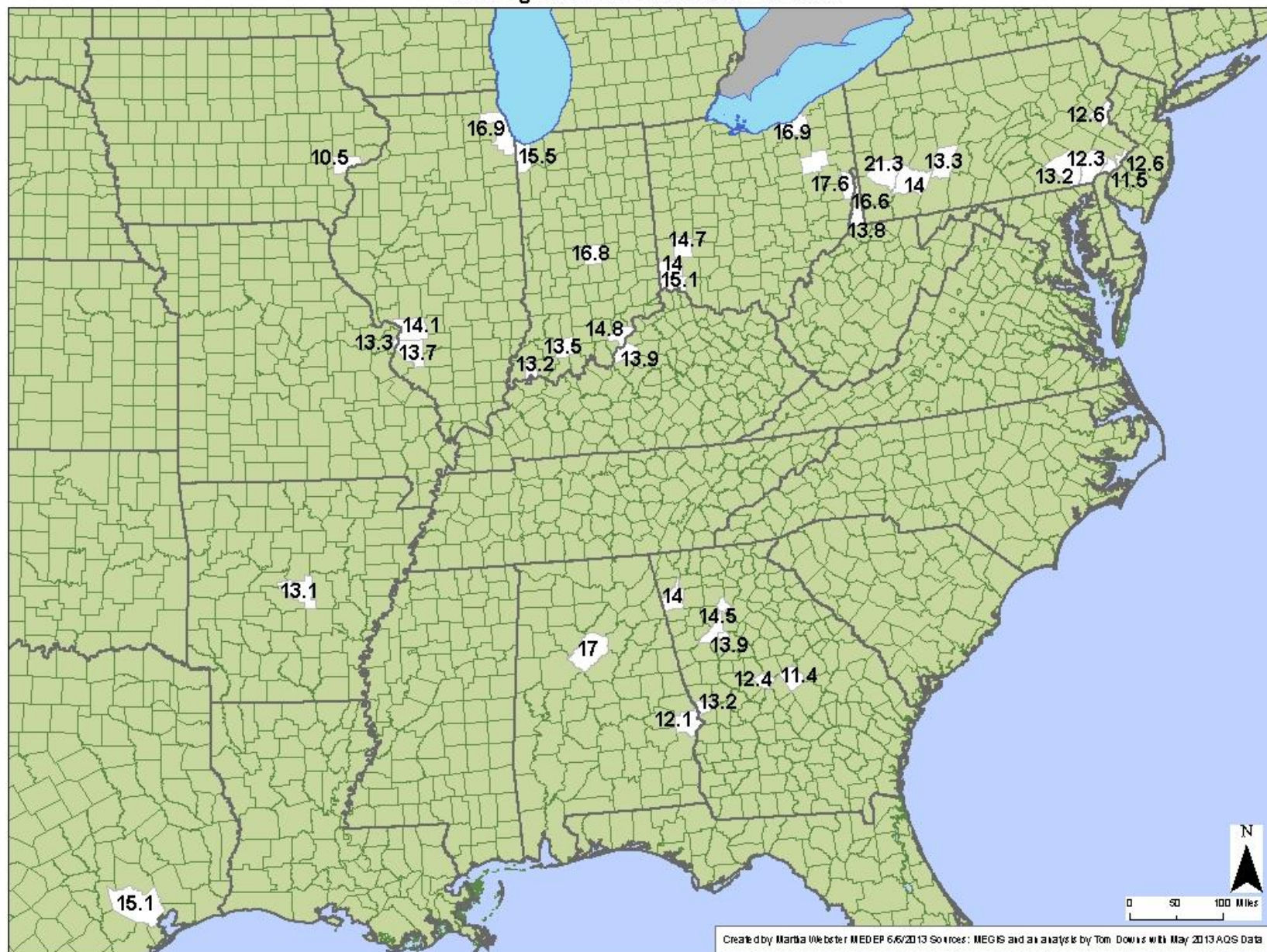


**FIGURE C-25:**  
Violating Counties PM 2.5 2012 Summer Ave.



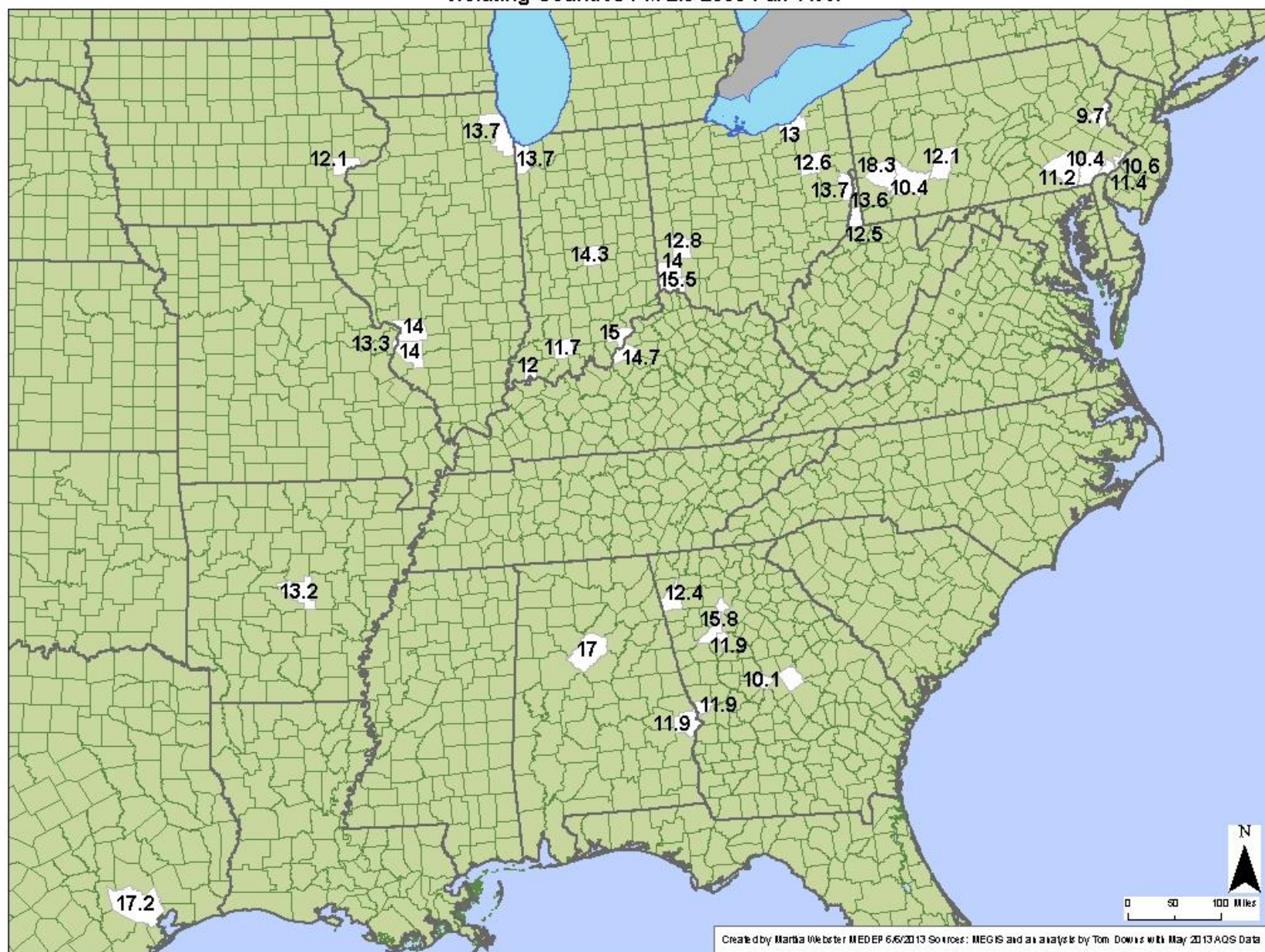


**FIGURE C-26:**  
Violating Counties PM 2.5 2007 Fall Ave.



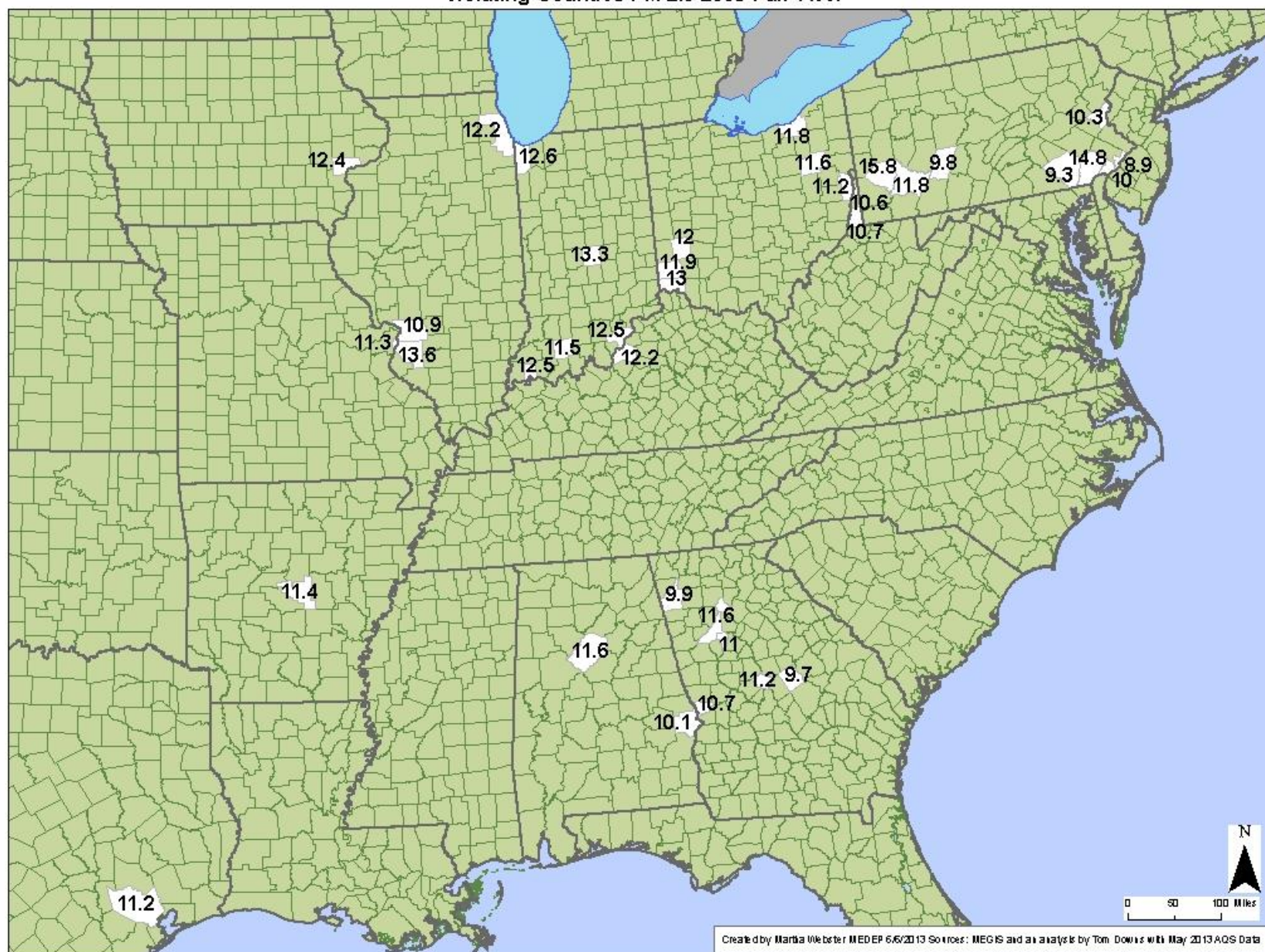


**FIGURE C-27:**  
Violating Counties PM 2.5 2008 Fall Ave.



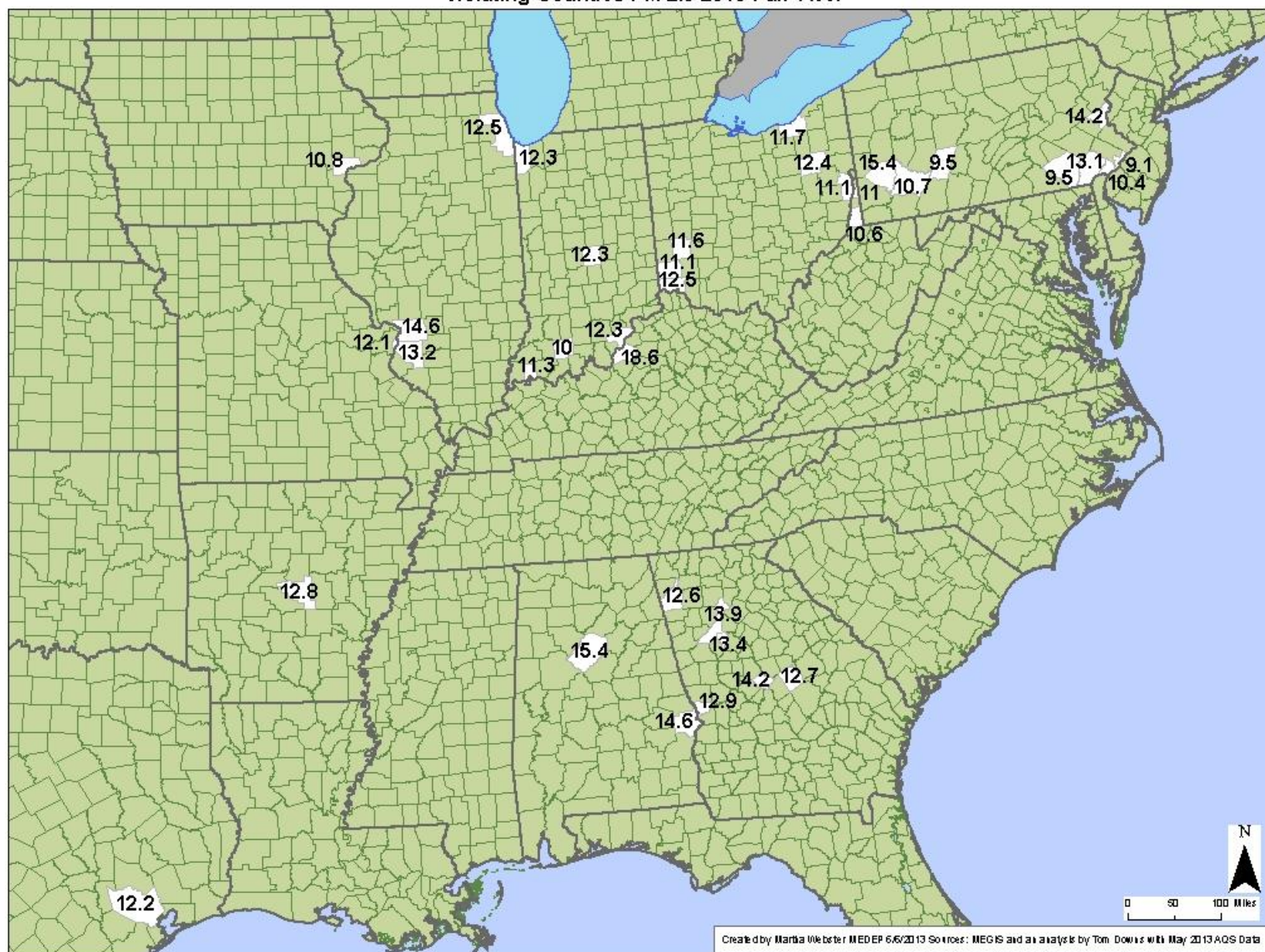


**FIGURE C-28:**  
Violating Counties PM 2.5 2009 Fall Ave.



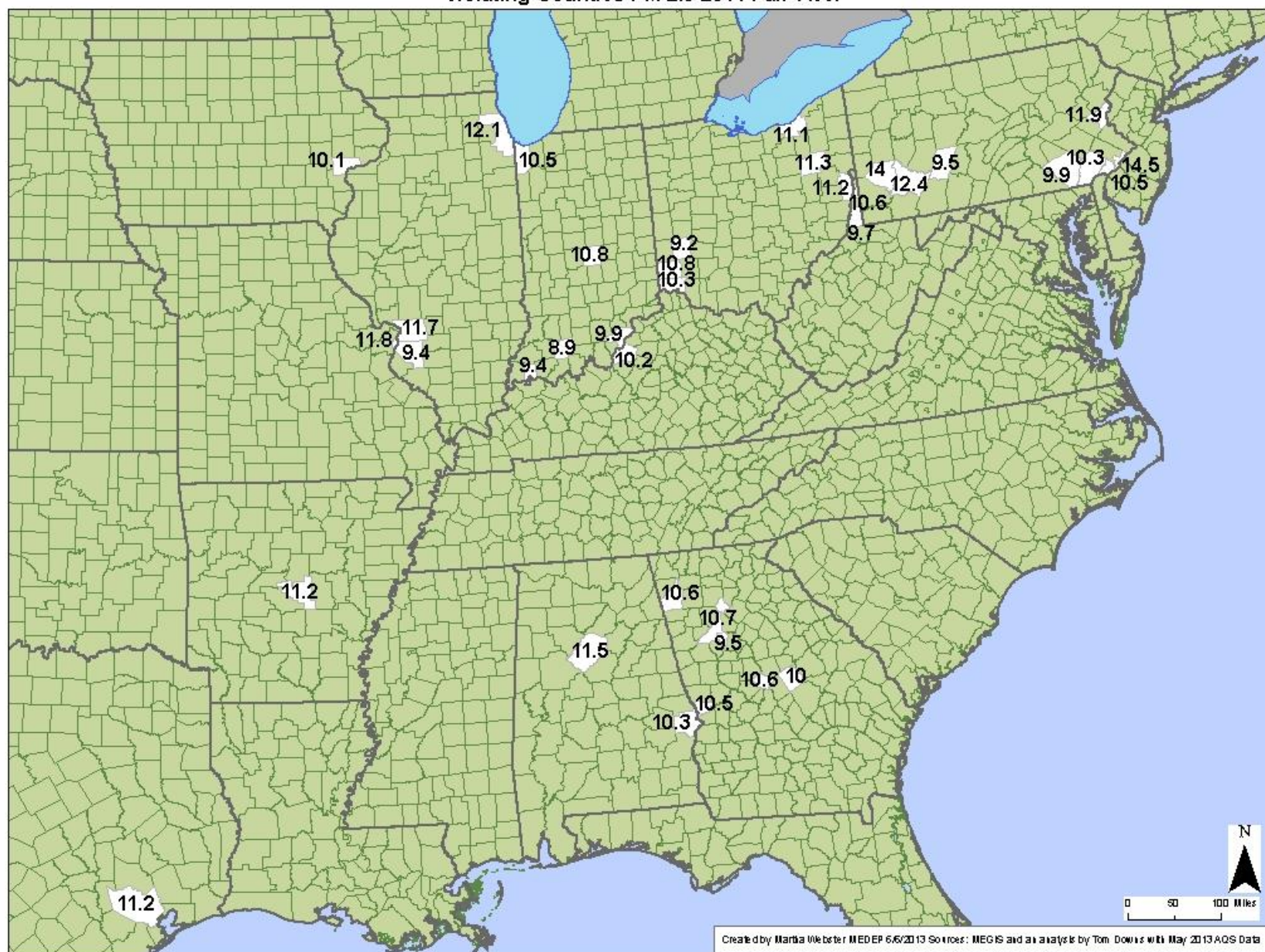


**FIGURE C-29:**  
Violating Counties PM 2.5 2010 Fall Ave.





**FIGURE C-30:**  
Violating Counties PM 2.5 2011 Fall Ave.





**FIGURE C-31:**  
Violating Counties PM 2.5 2012 Fall Ave.

