

# EPA Update – August 31, 2010

- Revision of the Air Standards for Ozone
- Interstate Transport of Air Pollution Proposal
- New NAAQS for Sulfur Dioxide

# Revision of the Ozone Air Standards

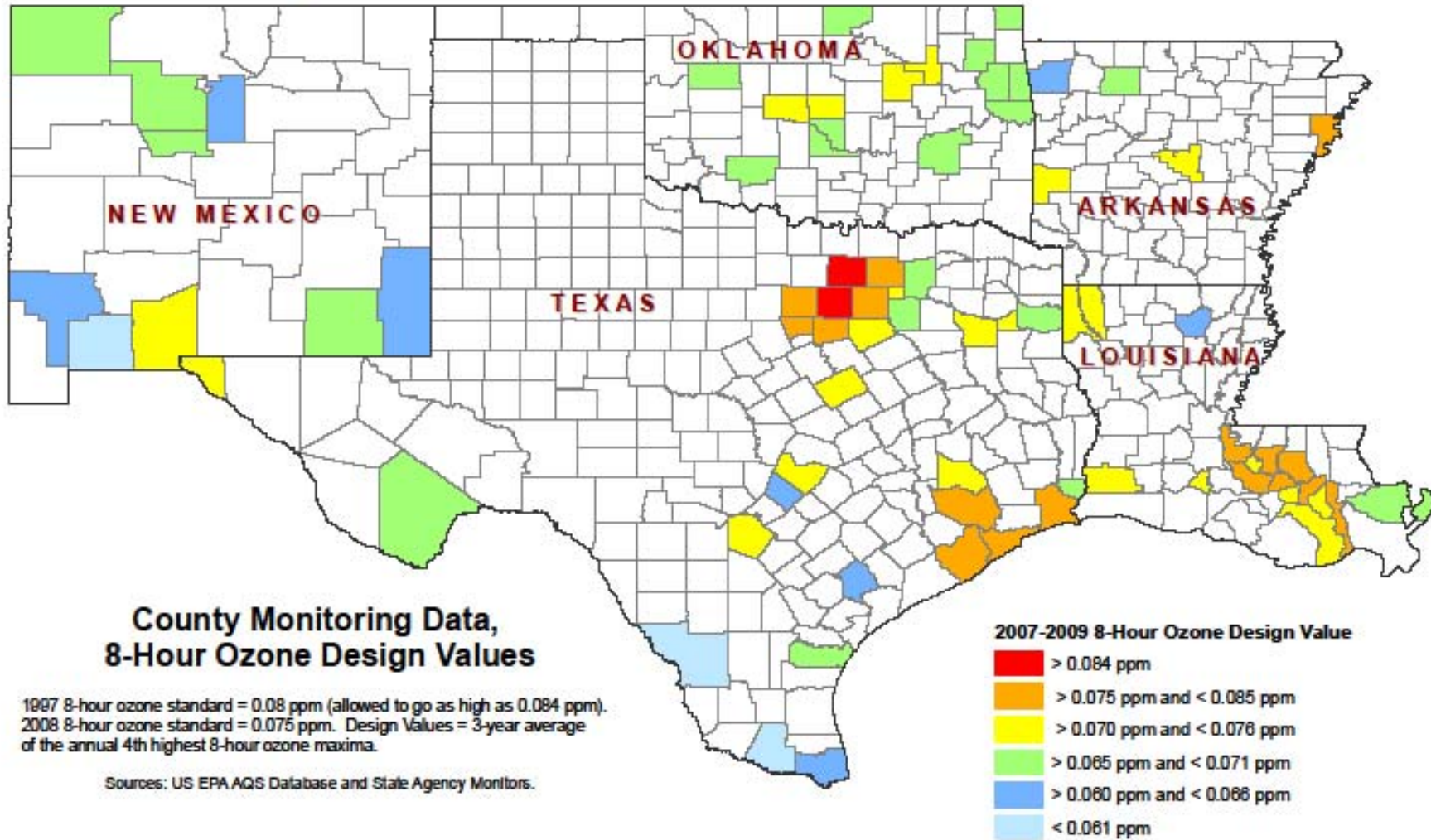
- 2008 - NAAQS revised to 75 ppb
- Reconsideration Proposal – published January 19, 2010
- Primary Standard - 60 ppb to 70 ppb
- Separate Secondary Standard
- Target for decision is October 29, 2010 on primary

# More Information

[www.epa.gov/groundlevelozone](http://www.epa.gov/groundlevelozone)

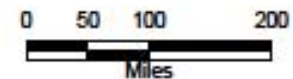
(click on regulatory actions)

# Region 6 Ground Level Ozone Concentrations



 EPA Region 6  
GIS Support Team  
April 14, 2009  
201004-14ML03

 LOCKWOOD MARTIN



# Proposal for Interstate Transport of Air Pollution

- Published August 2, 2010
- Public Hearings in
  - Aug. 19 – Chicago, Aug. 26 – Philadelphia, Sept. 1 - Atlanta
- Nitrogen oxide (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) emissions for the 1997 ozone standards and the 1997 and 2006 PM<sub>2.5</sub> standards
- A cap and trade program for NO<sub>x</sub> emissions would begin in May 2012
- Texas - NO<sub>x</sub> emissions for ozone
- Considering Texas effect on PM<sub>2.5</sub> levels

# Four Separate Control Regions

- Proposal includes separate requirements for:
  - NO<sub>x</sub> reductions (2012)
  - Ozone-season NO<sub>x</sub> reductions (2012)
- Sets emissions budgets for each state



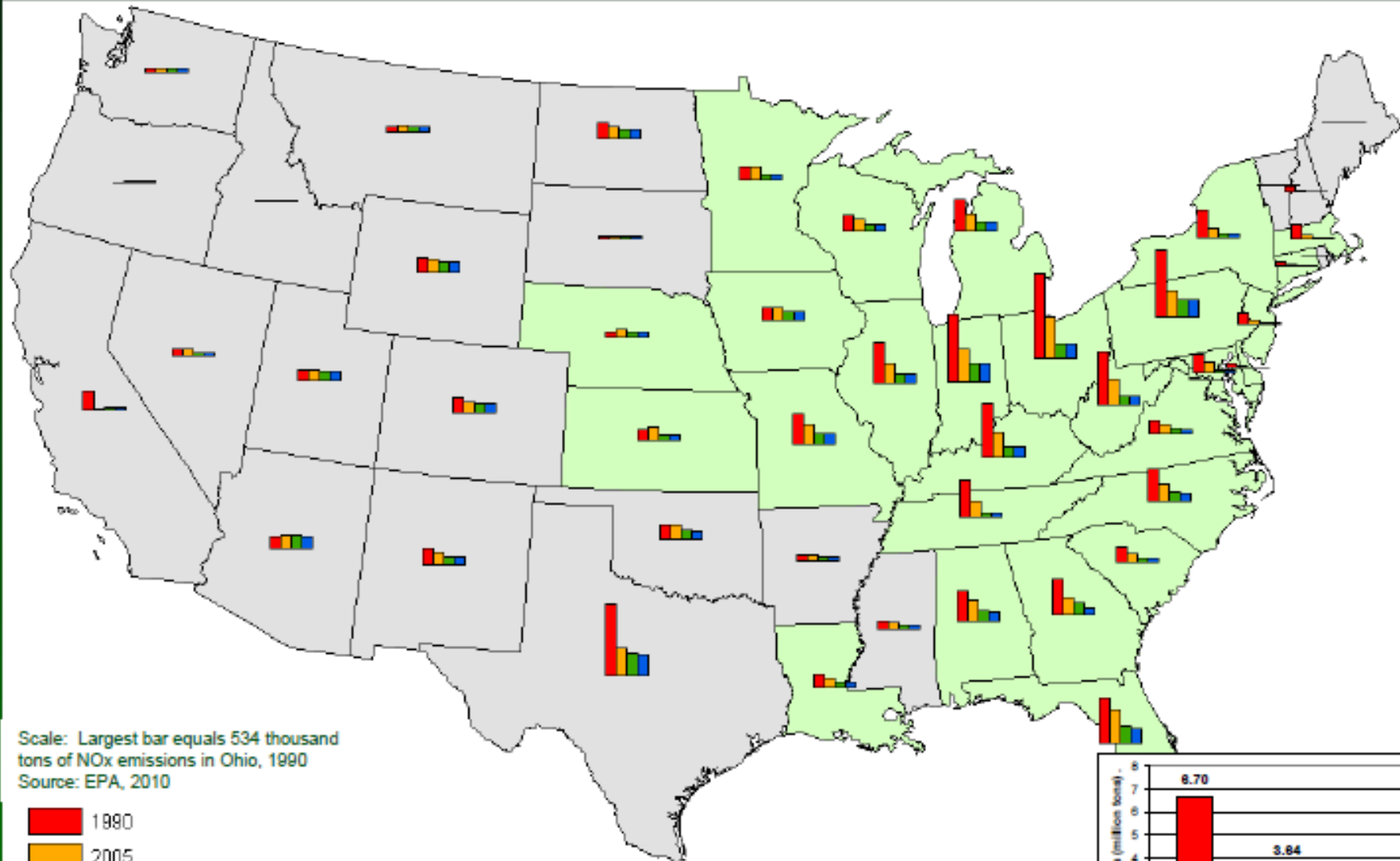
■ States covered by the Transport Rule (Northeast and South) and covered by the ozone-season NO<sub>x</sub> (2012) (States + O3)  
■ States covered by the Transport Rule (Northwest) and covered by the ozone-season NO<sub>x</sub> (2012) (States + O3)  
■ States covered by the Transport Rule (Southwest) and covered by the ozone-season NO<sub>x</sub> (2012) (States + O3)  
■ States not covered by the Transport Rule

- Proposal includes separate requirements for:
  - Annual SO<sub>2</sub> reductions
    - Phase I (2012) and Phase II (2014)
    - Two Control Groups
      - Group 1 – 2012 cap lowers in 2014
      - Group 2 – 2012 cap only
- Sets emissions budgets for each state



■ SO<sub>2</sub> group 1 (2012 cap)  
■ SO<sub>2</sub> group 2 (2012 cap only)  
 States in both groups are covered for annual SO<sub>2</sub>

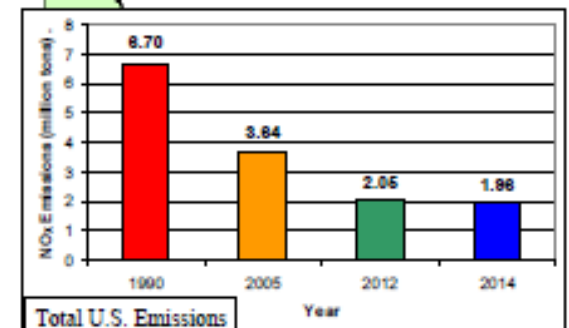
# Annual NO<sub>x</sub> Power Plant Emissions 1990-2014 \*



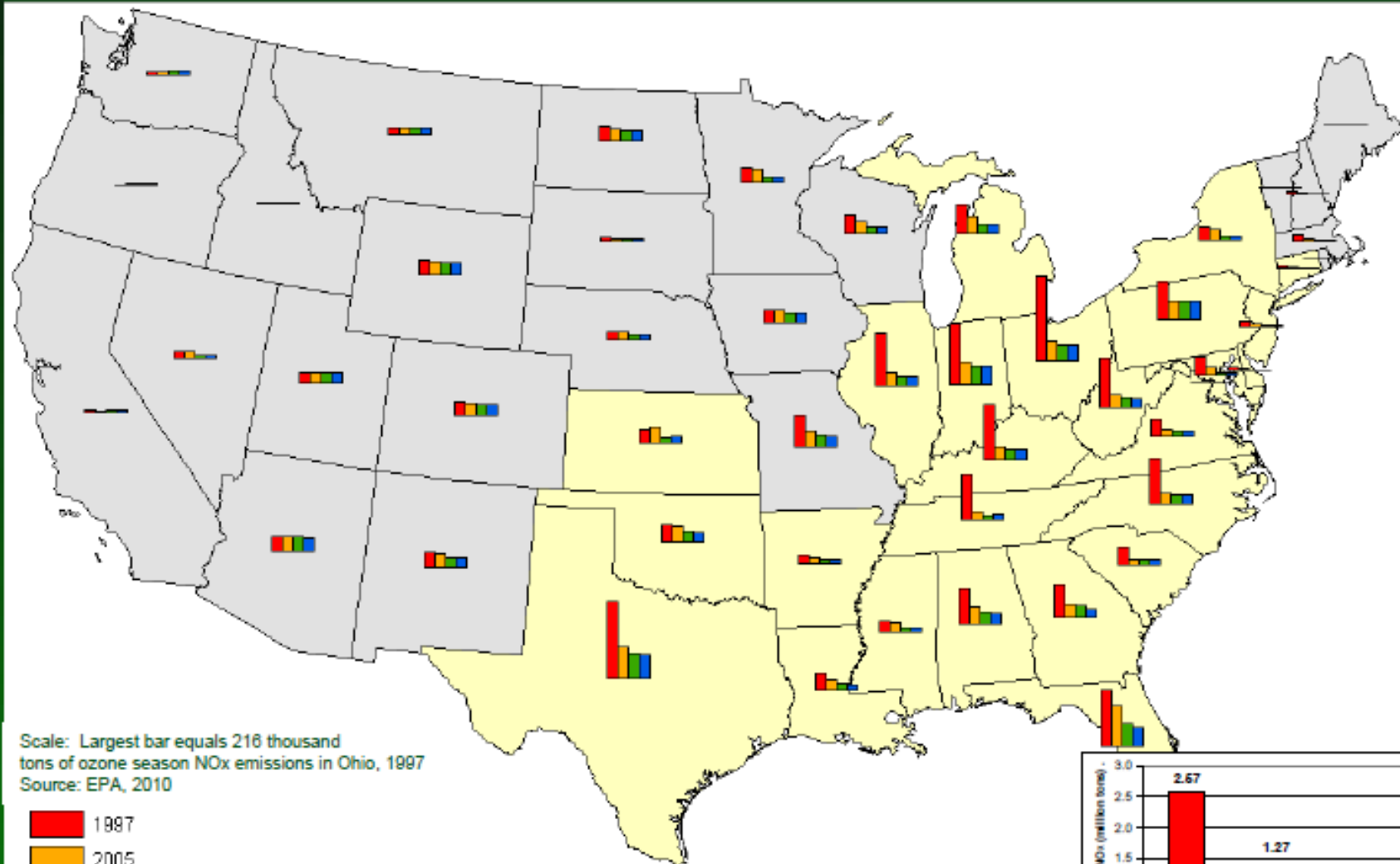
Scale: Largest bar equals 534 thousand tons of NO<sub>x</sub> emissions in Ohio, 1990  
Source: EPA, 2010

- 1990
- 2005
- 2012 Proposed Remedy
- 2014 Proposed Remedy
- States controlled for fine particles (annual SO<sub>2</sub> and NO<sub>x</sub>) (27 States + DC)
- States not covered for fine particles

\* Emissions shown include only Acid Rain Program sources – for 96% of annual Transport Rule NO<sub>x</sub> emissions and 88% of Transport Rule units in 2014.



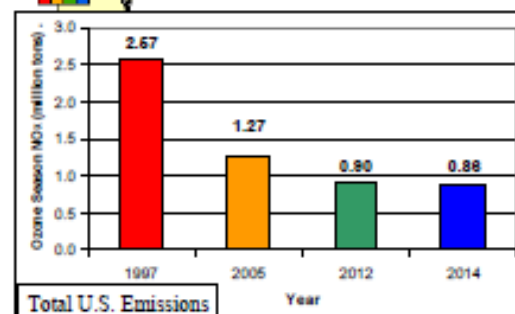
# Ozone Season NO<sub>x</sub> Power Plant Emissions 1997-2014 \*



Scale: Largest bar equals 216 thousand tons of ozone season NO<sub>x</sub> emissions in Ohio, 1997  
Source: EPA, 2010

- 1997
- 2005
- 2012 Proposed Remedy
- 2014 Proposed Remedy
- States controlled for ozone (ozone season NO<sub>x</sub>) (25 States + DC)
- States not covered by the Transport Rule

\* Emissions shown include only Acid Rain Program sources – for 96% of ozone season Transport Rule NO<sub>x</sub> emissions and 88% of Transport Rule units in 2014.





## Counties with Monitors Projected to Have Ozone and/or PM<sub>2.5</sub> Air Quality Problems in 2014 Without the Proposed Transport Rule

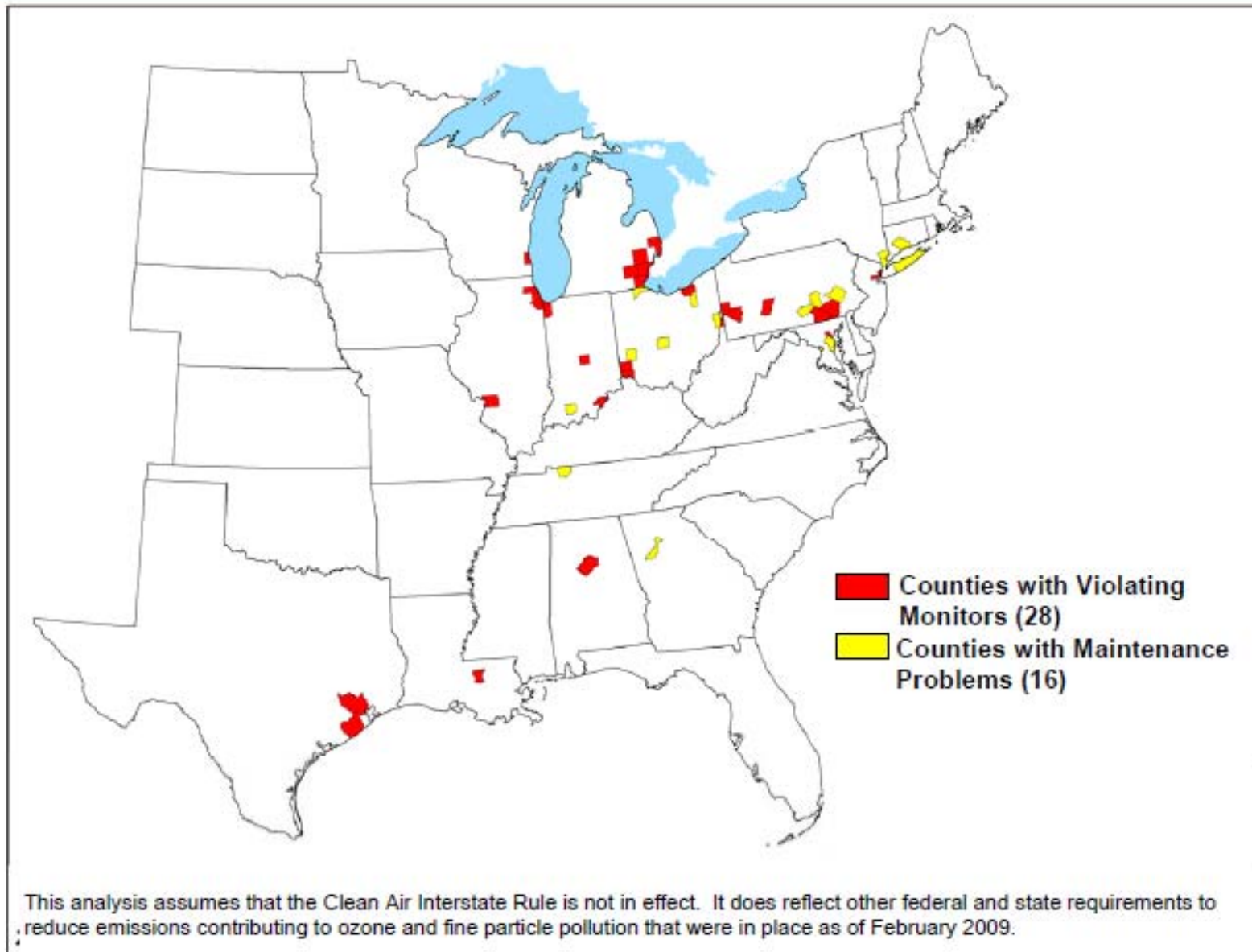


Table V-4. Percent reduction in 8-hour ozone nonattainment and/or maintenance in the Eastern U.S.

8-Hour Ozone	Number of Nonattainment and Maintenance Sites				Percent Reduction in Nonattainment/Maintenance Sites	
	Ambient (2003-2007)	2012 Base Case	2014 Base Case	2014 Remedy	2012 Base vs 2014 Remedy	2014 Base vs 2014 Remedy
Nonattainment Sites	103	11	7	7	36%	0%
Maintenance-Only Sites	67	16	6	5	69%	17%

Table V-5. Average and peak reductions in 8-hour ozone for the 2012 base case nonattainment and/or maintenance sites.

8- Hour Ozone	2014 Remedy vs 2012 Base Case		2014 Remedy vs 2014 Base Case	
	Average Reduction	Greatest Reduction	Average Reduction	Greatest Reduction
Nonattainment Sites	2.0 ppb	3.2 ppb	0.3 ppb	0.4 ppb
Maintenance-Only Sites	2.2 ppb	3.8 ppb	0.3 ppb	0.5 ppb

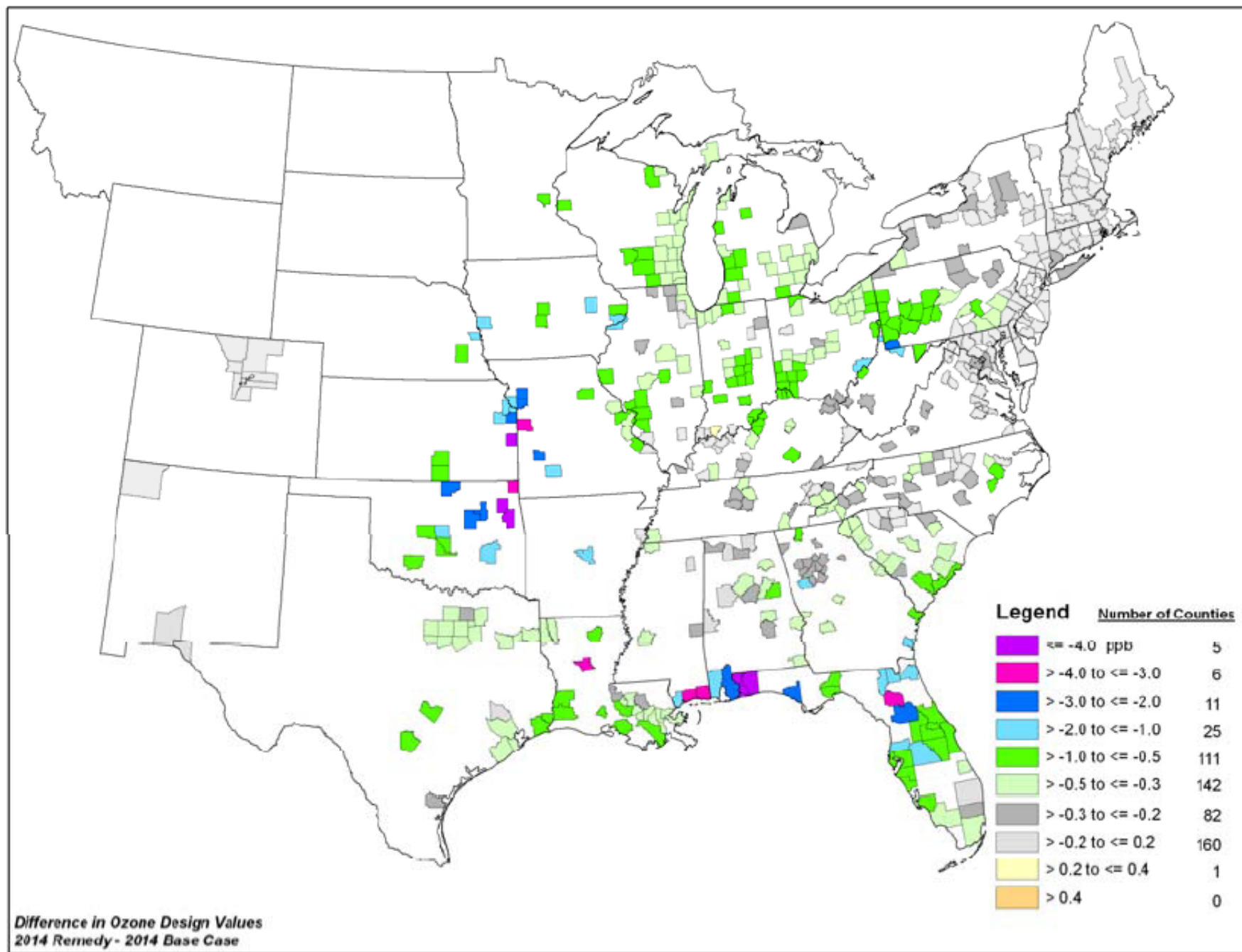


Figure V-15. Impacts on 8-hour ozone concentrations in 2014 resulting from the emissions reductions in the 2014 remedy scenario.

# More Information

[www.epa.gov/airtransport](http://www.epa.gov/airtransport)

## Technical Materials:

<http://www.epa.gov/airquality/transport/tech.html>

# OTHER Regulations coming

- Transport Rule II (NOX) Propose Summer 2011/Final - Summer 2012
- PM NAAQS Propose Feb 2011/Final Oct 2011