

# CenSARA and LADCO Region Air Quality Overview

2014 Midwest and Central States Air  
Quality Workshop  
April 22-24, 2014  
St. Louis, MO

# CenSARA

## Members

Arkansas DEQ

Iowa DNR

Kansas DHE

Louisiana DEQ

Missouri DNR

Nebraska DEQ

Oklahoma DEQ

Texas CEQ

Federally-funded local programs are represented on the Board of Directors by one agency each from EPA Region 6 and Region 7

## *Organization Purpose:*

- Promote the exchange of air quality information, knowledge, experience and data
- Support members in technical projects through contract management and representation on regional/national groups
- Increase staff productivity through management of training courses for member agency staff

# **LADCO Members**

Illinois EPA

Indiana DEM

Michigan DEQ

Minnesota PCA

Ohio EPA

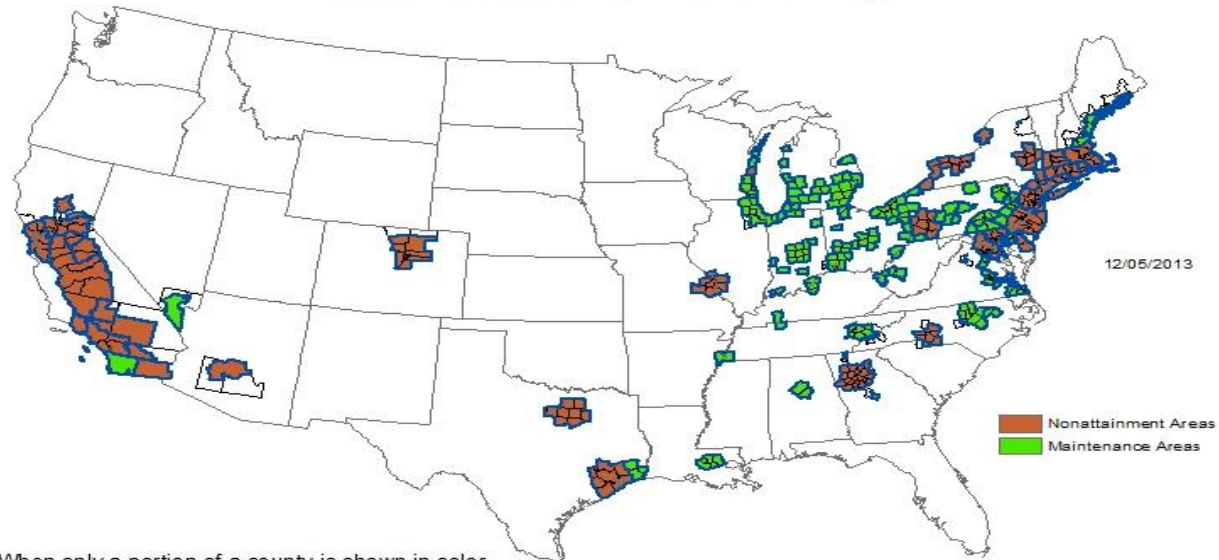
Wisconsin DNR

## ***Organization Purpose:***

- Provide technical assessments for and assistance to member states on air quality problems
- Provide a forum for member states and areas that impact the states to discuss air quality issues
- Provide funds to states for training

# 1997 Ozone NAAQS

## 8-Hour Ozone Nonattainment and Maintenance Areas (1997 Standard)



When only a portion of a county is shown in color, it indicates that only that part of the county is within an area boundary.

The Illinois portion of the St. Louis, MO-IL 8-hr Ozone (1997 Standard) nonattainment area has been redesignated, while the Missouri portion has not. The entire area is not considered in maintenance until all states in a multi-state area are redesignated.

The South Carolina portion of the Charlotte-Gastonia-Rock Hill, NC-SC 8-hr Ozone (1997 Standard) nonattainment area has been redesignated and the North Carolina portion will be redesignated effective January 2, 2014. The entire area is not considered in maintenance until all states in a multi-state area are redesignated.

The Atlanta, GA 8-hr Ozone (1997 Standard) nonattainment area will be redesignated effective January 2, 2014.

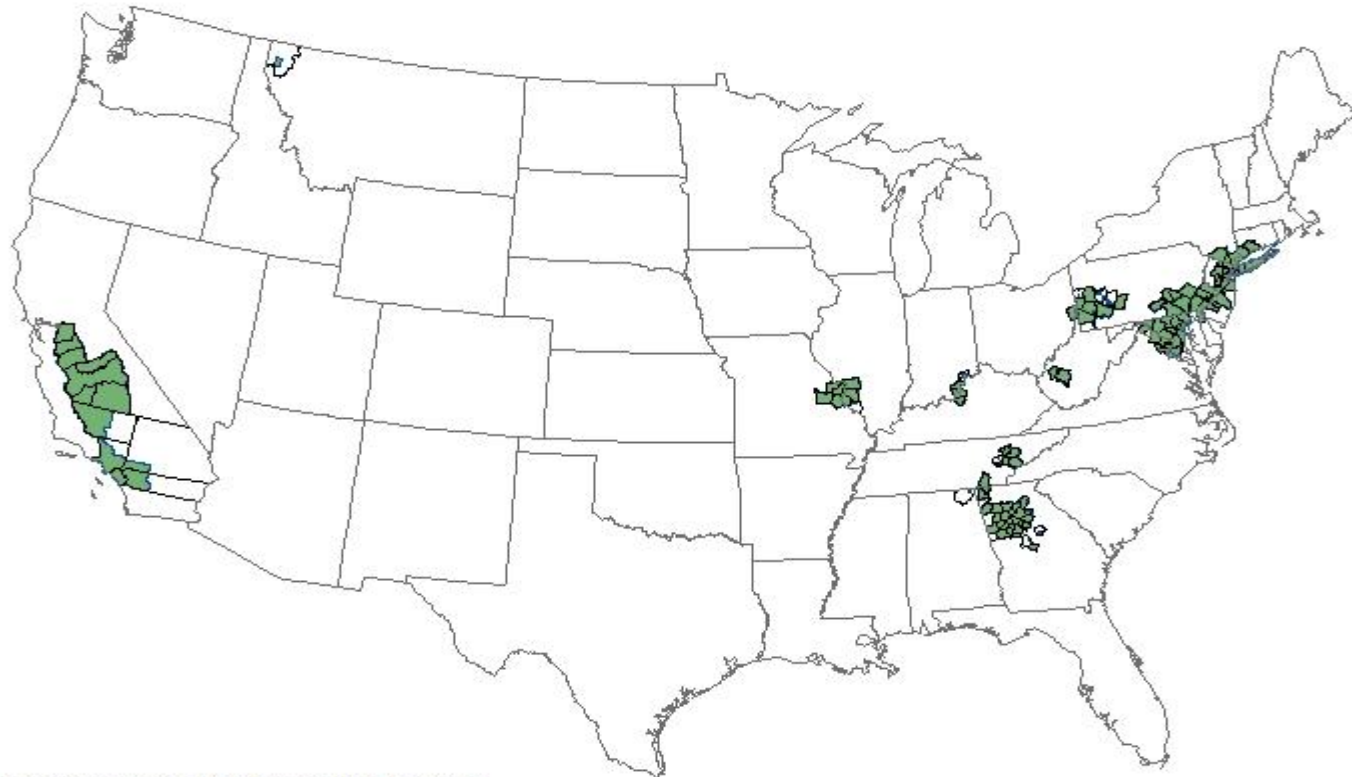
# 2008 Ozone NAAQS

## 8-Hour Ozone Nonattainment Areas (2008 Standard)



Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.

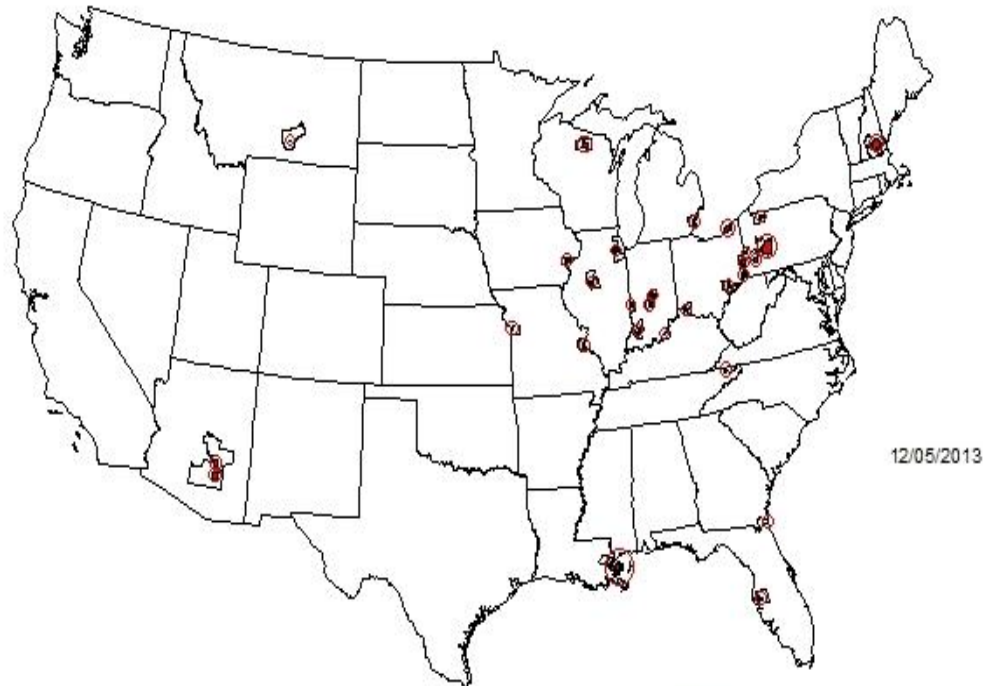
## PM-2.5 Nonattainment Areas (1997 Standard)




Nonattainment areas are indicated by color.  
When only a portion of a county is shown in color,  
it indicates that only that part of the county is within  
a nonattainment area boundary.

12/05/2013

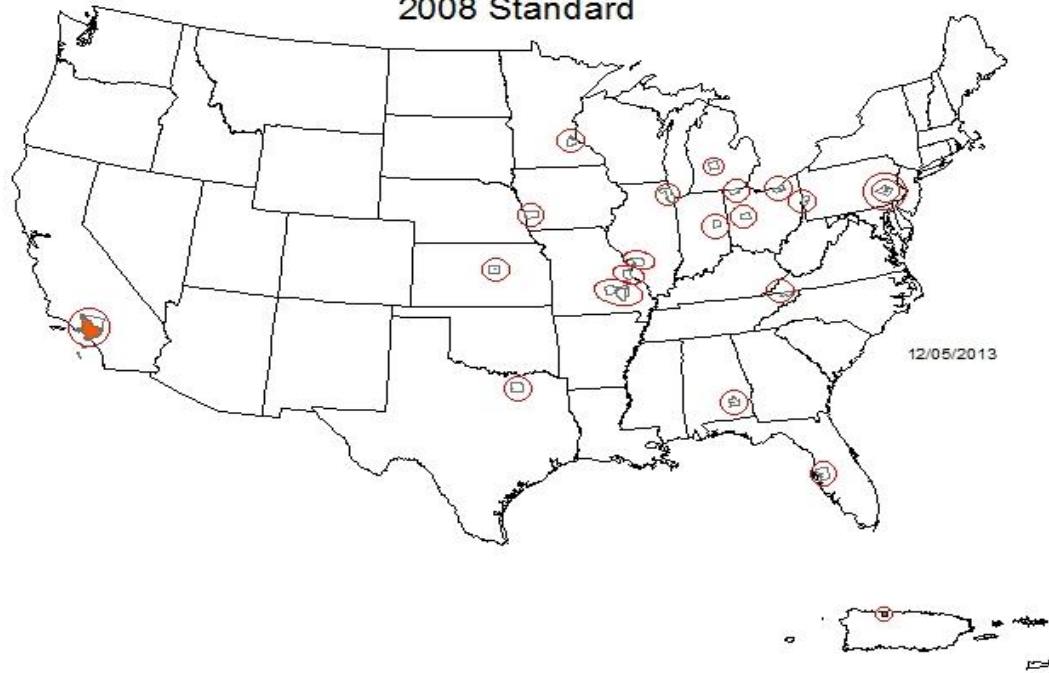
# SO2 NAAQS (2010)



Nonattainment areas are indicated by color.  
When only a portion of a county is shown in color,  
it indicates that only that part of the county is within  
a nonattainment area boundary.

 SO2 Nonattainment Areas

## Counties Designated Nonattainment for Lead 2008 Standard



 Nonattainment Areas (2008 Standard)

The portions of a county designated nonattainment are indicated by color on this national map. The counties with nonattainment areas are circled. The double circles indicate that there are two nonattainment areas within the same county. The State maps provide details of the smaller nonattainment areas within the county boundaries.



# Estimated Emission Changes from 2011 to 2018

Pollutant	CO	NH3	NOX	PM10	PM2_5	SO2	VOC
CenSARA Region	-12%	+2%	-24%	-50%	-29%	-55%	-3%
LADCO Region	-21%	+1%	-33%	-59%	-35%	-65%	-18%
Eastern State Total (EST)	-17%	+4%	-29%	-56%	-30%	-59%	-11%
CONUS	-16%	+3%	-29%	-54%	-29%	-57%	-10%

Source: EPA's 2011 and 2018 emissions modeling platform for the transport and NAAQS rules: <http://www.epa.gov/ttn/chief/emch.index.html#2011>.  
Does not include biogenics.

# Estimated Emissions in 2018

	CO	NH3	NOX	PM10	PM2.5	SO2	VOC
CenSARA % of Eastern State Total (EST)	31%	43%	35%	52%	40%	28%	42%
LADCO % of EST	20%	22%	21%	17%	18%	27%	16%

Source: EPA's 2018 emissions modeling platform for the transport and NAAQS rules:  
<http://www.epa.gov/ttn/chief/emch.index.html#2011>.  
Does not include biogenics.

# Deep Thoughts

- How can technical “building blocks” like those we’ll see in the Workshop help with transport, NAAQS, Regional Haze SIPs, Section 111(b) and (d) and ??????
  - Regional haze Phase II SIPs are due to EPA by July 31, 2018; NAAQS SIP due dates vary; transport SIPs due ??
  - As sources of interest decrease in size, technical analysis needs increase.
  - How can/should technical projects be coordinated within the regions, with other regions, and with EPA?

# Appendix

