

# Status of Regional Air Quality Planning

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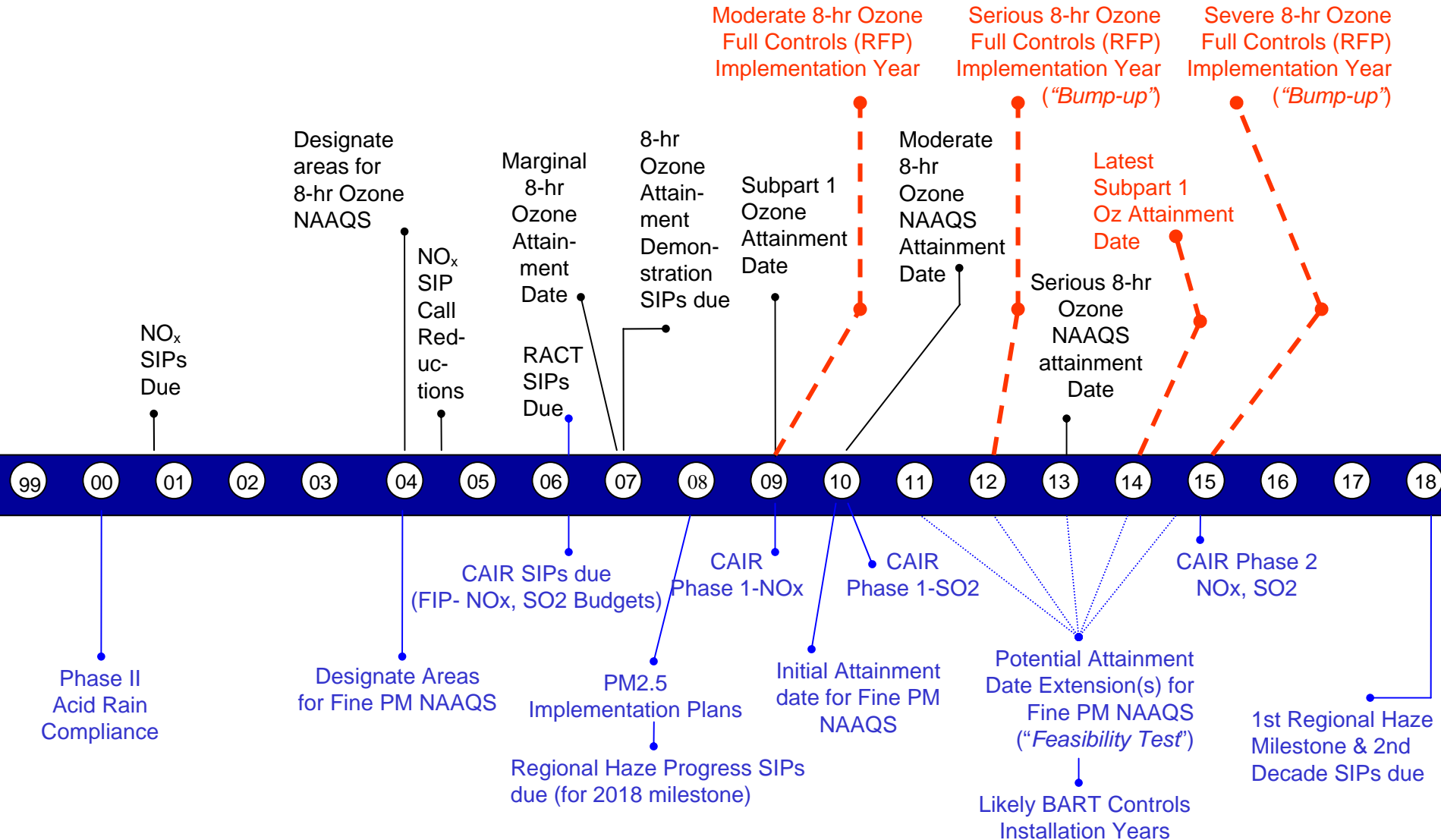
Regional Quality Workshop

June 28-29, 2005

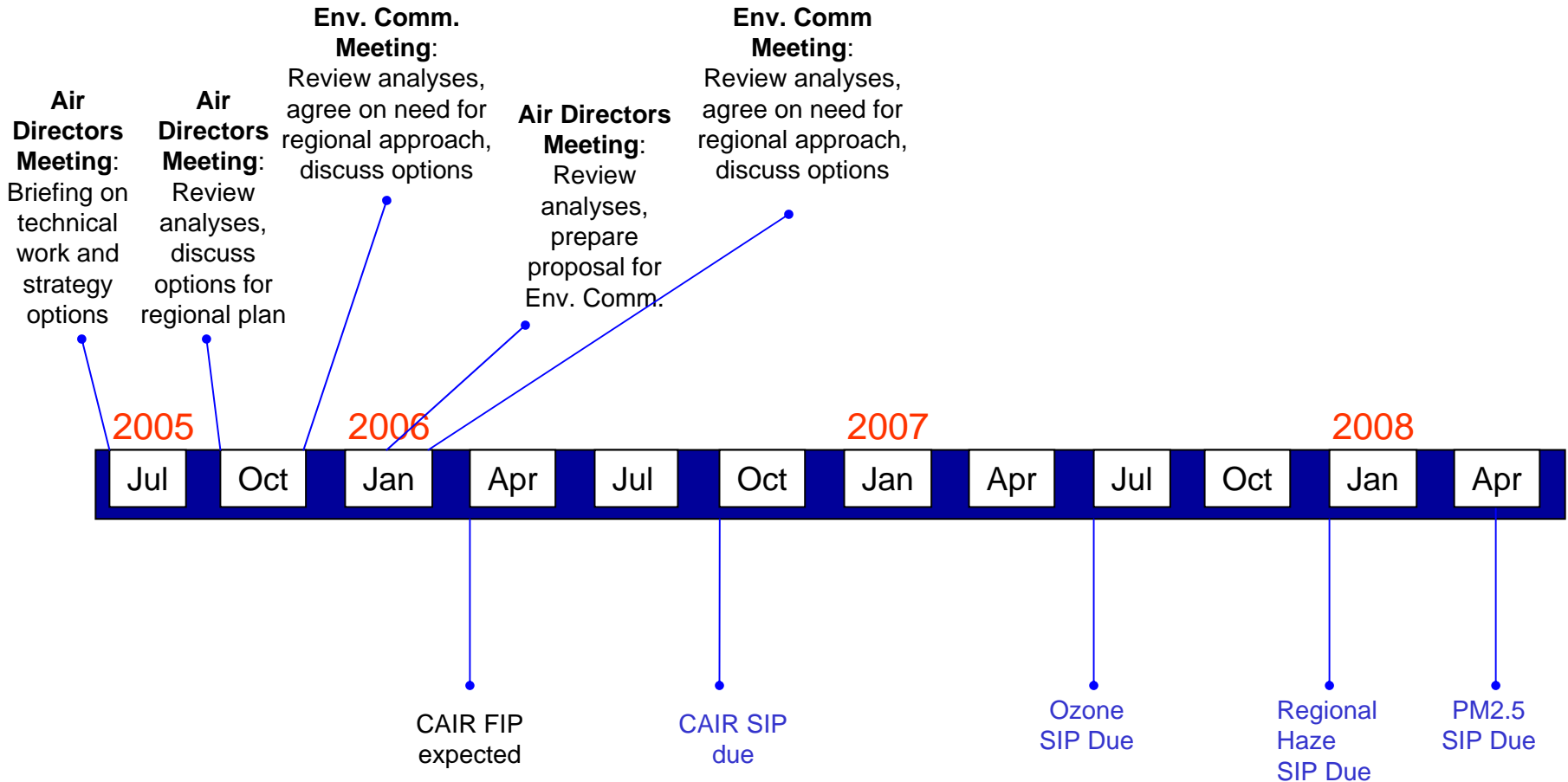
# Overview

- Schedule
- Base Strategy Results
- Candidate Control Measures
- Strategy Options

# Ozone, PM<sub>2.5</sub>, and Regional Haze Schedule (draft)



# Near-Term Ozone, PM<sub>2.5</sub>, and Regional Haze SIP Schedule



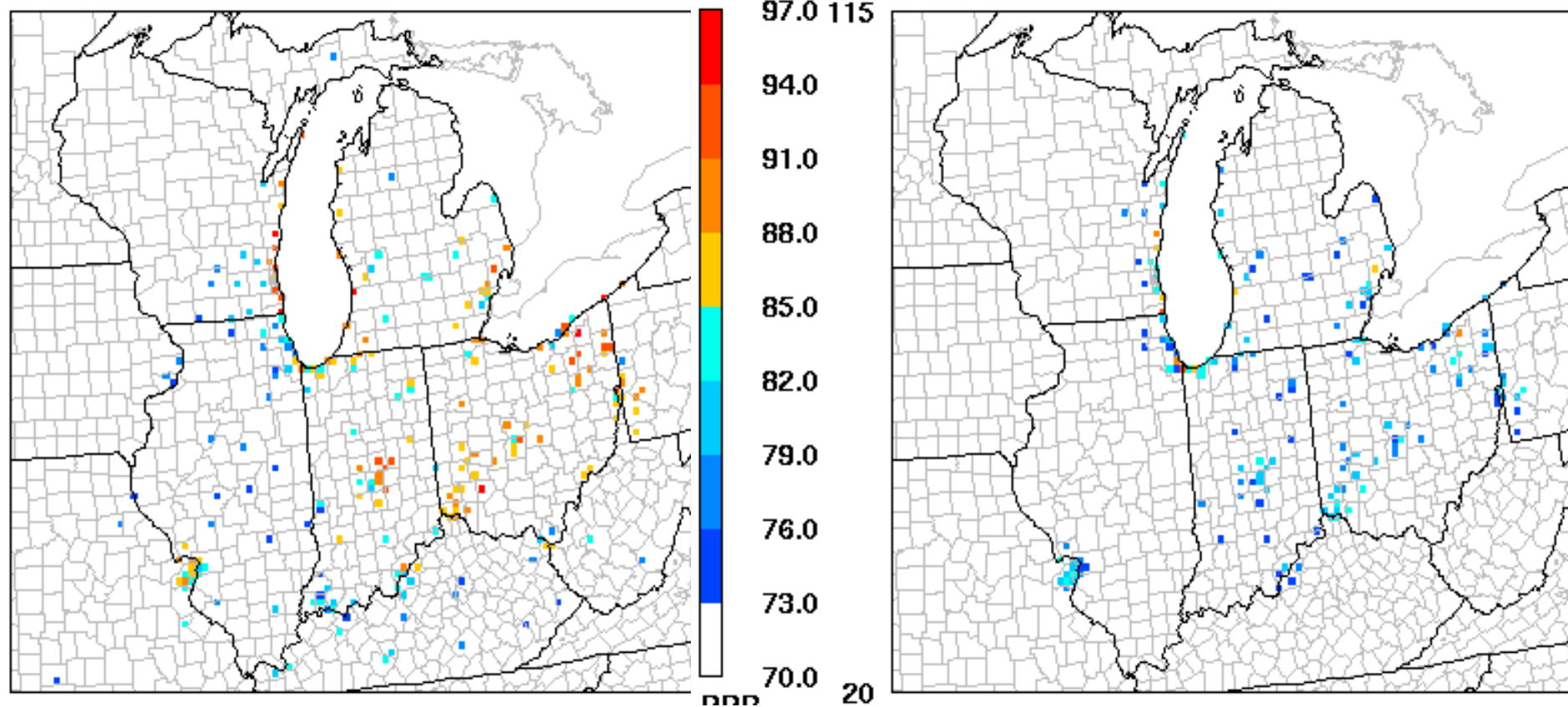
# Base Control Strategies

- “On the books” (existing)
- “On the way” (new)
  - CAIR

# Ozone Results

2002 (observed)

2009 CAIR

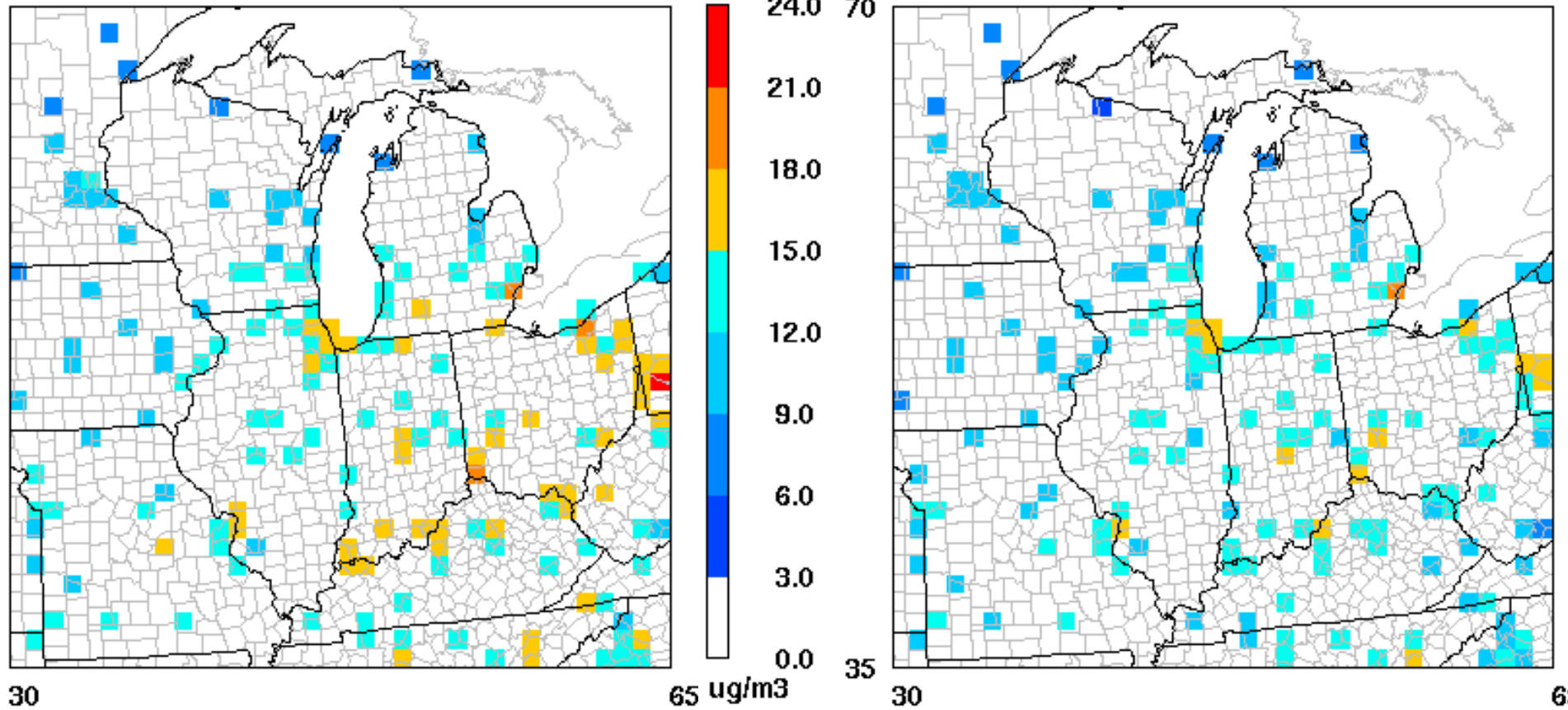


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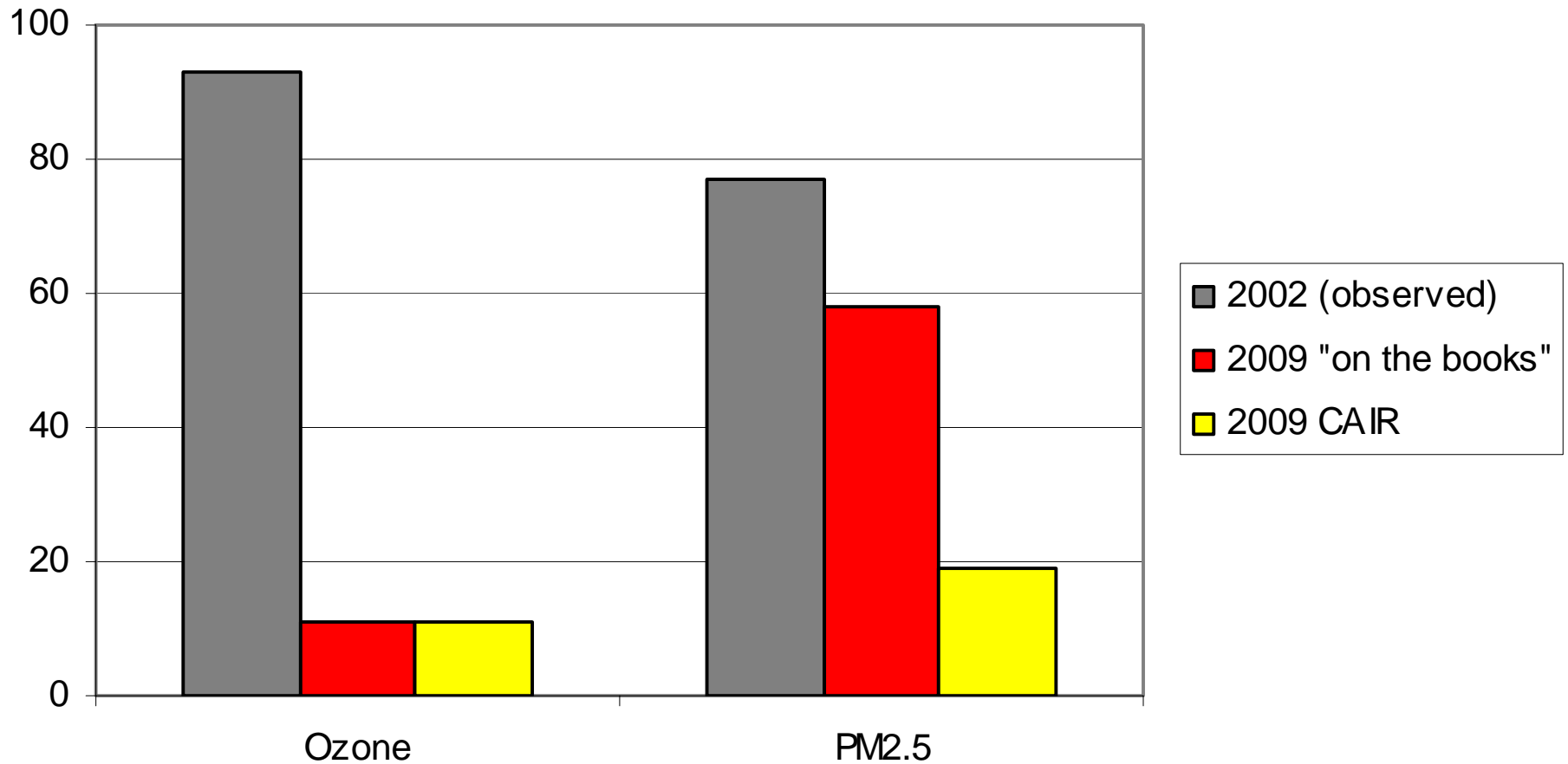
# PM<sub>2.5</sub> Results

2002 (observed)

2009 CAIR

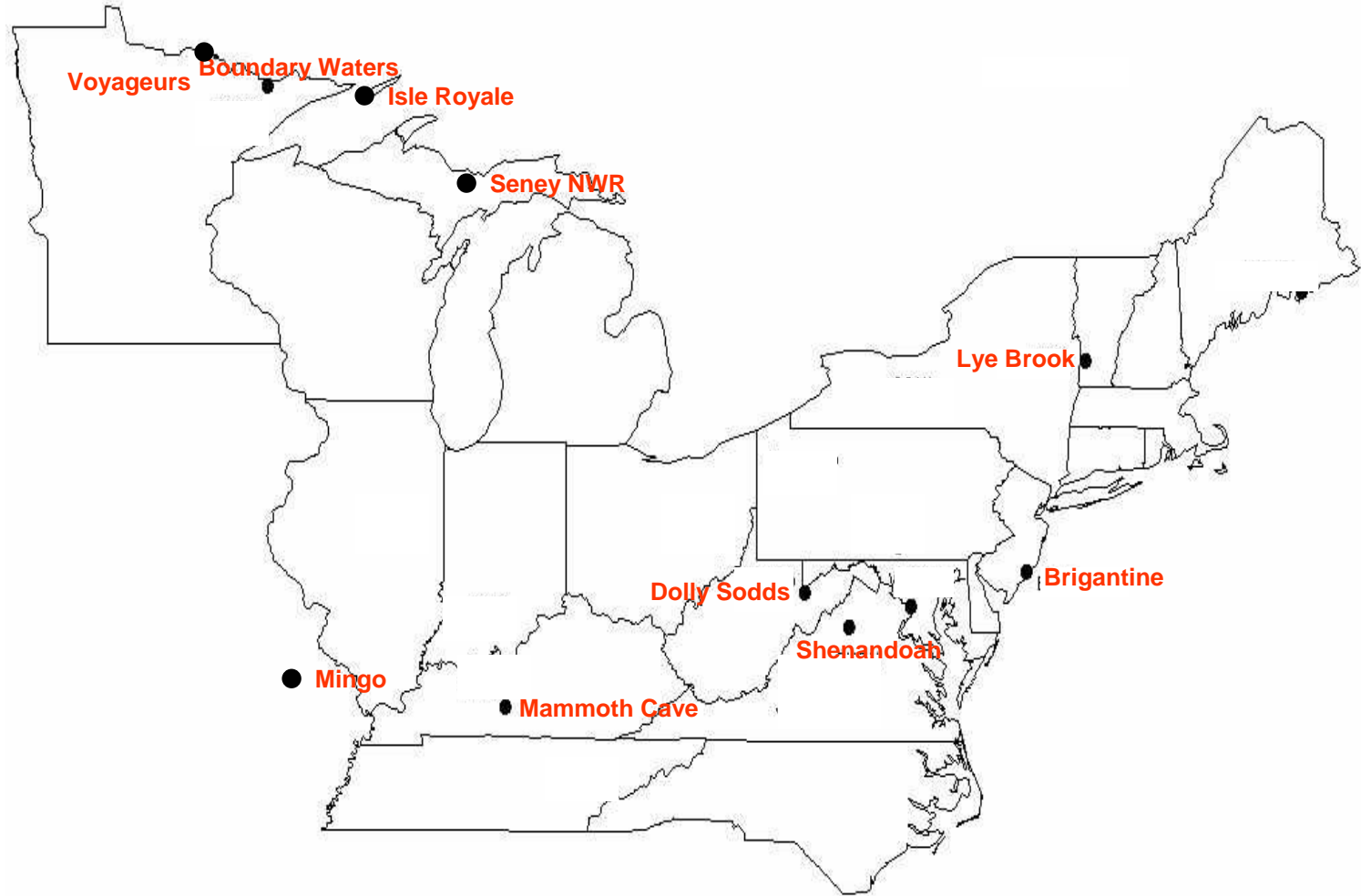


# How many sites are above NAAQS?

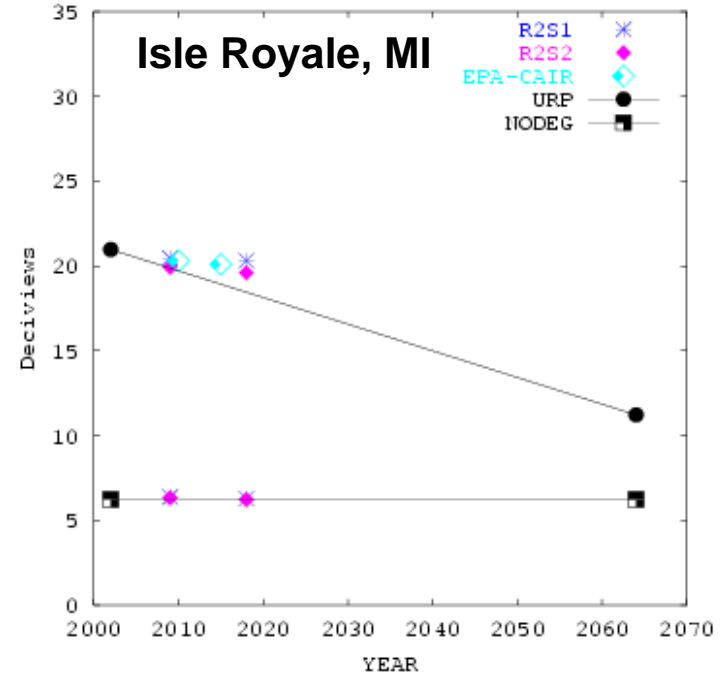
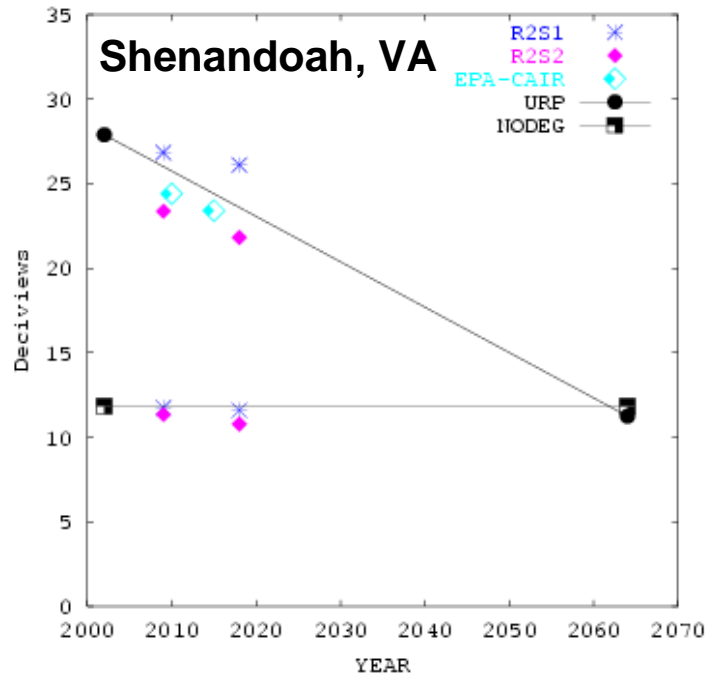
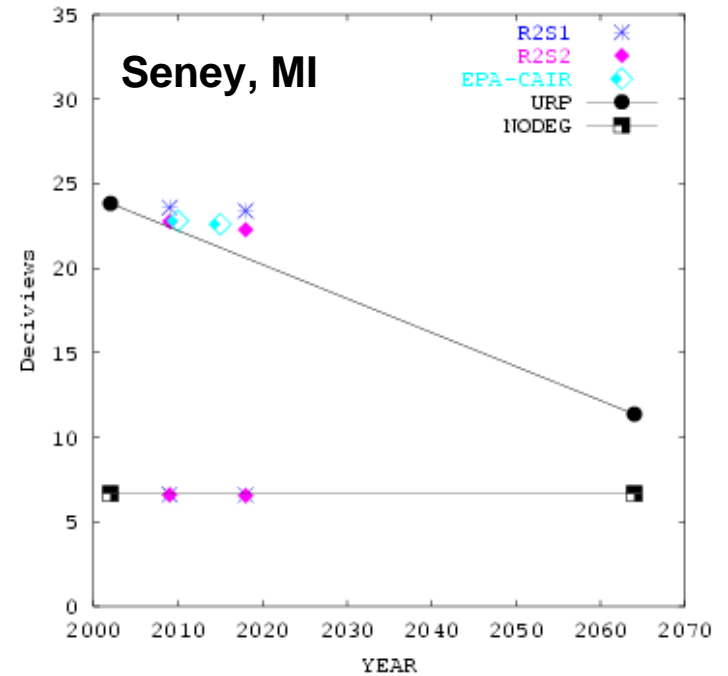




# Regional Haze Results



# Regional Haze Results



What will it take to provide for attainment and meet regional haze goals?

# Control Strategies

- “On the books” (existing)
- “On the way” (new)
  - CAIR
- CAIR + Candidate Regional Controls
  - EGU1, EGU2
  - ICI Boilers
- CAIR + Candidate Local Controls
  - Area Source VOC
  - Fuels Strategy

# 2009 “on the books” controls

- Current state/local rules to meet 1-hour ozone requirements (e.g., motor vehicle I/M, reformulated gasoline, and NO<sub>x</sub> SIP Call)
- Heavy-duty diesel (2007) engine standard/Low sulfur fuel
- Federal control programs incorporated into NONROAD model (e.g., nonroad diesel rule), plus the evaporative Large Spark Ignition and Recreational Vehicle standards
- Federal railroad/locomotive standards
- Federal commercial marine vessel engine standards
- Tier II/Low sulfur fuel
- Title IV for EGUs (Phases I and II)
- VOC 2-, 4-, 7-, and 10-year MACT standards
- Combustion turbine MACT
- Industrial boiler/process heater/RICE MACT

# Candidate Control Measures

[http://www.ladco.org/Regional\\_Air\\_Quality.html](http://www.ladco.org/Regional_Air_Quality.html)

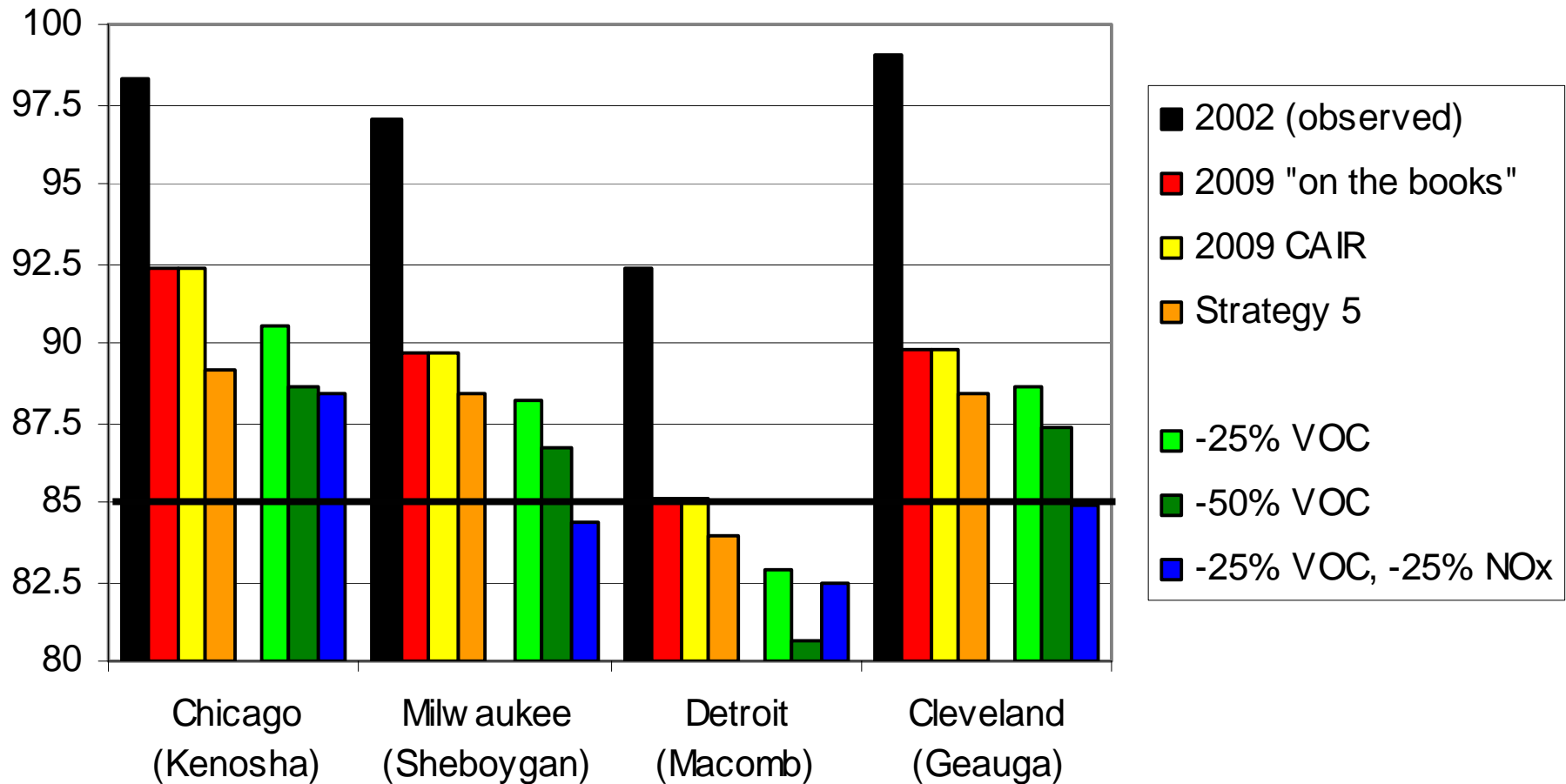
- **Point Sources**

- Electric Generating Units
- Industrial/Commercial/Institutional (ICI) Boilers
- Cement Kilns
- Petroleum Refineries
- Iron & Steel Plants
- Chemical Plants
- Surface Coating
- Degreasing

- **Area Sources**

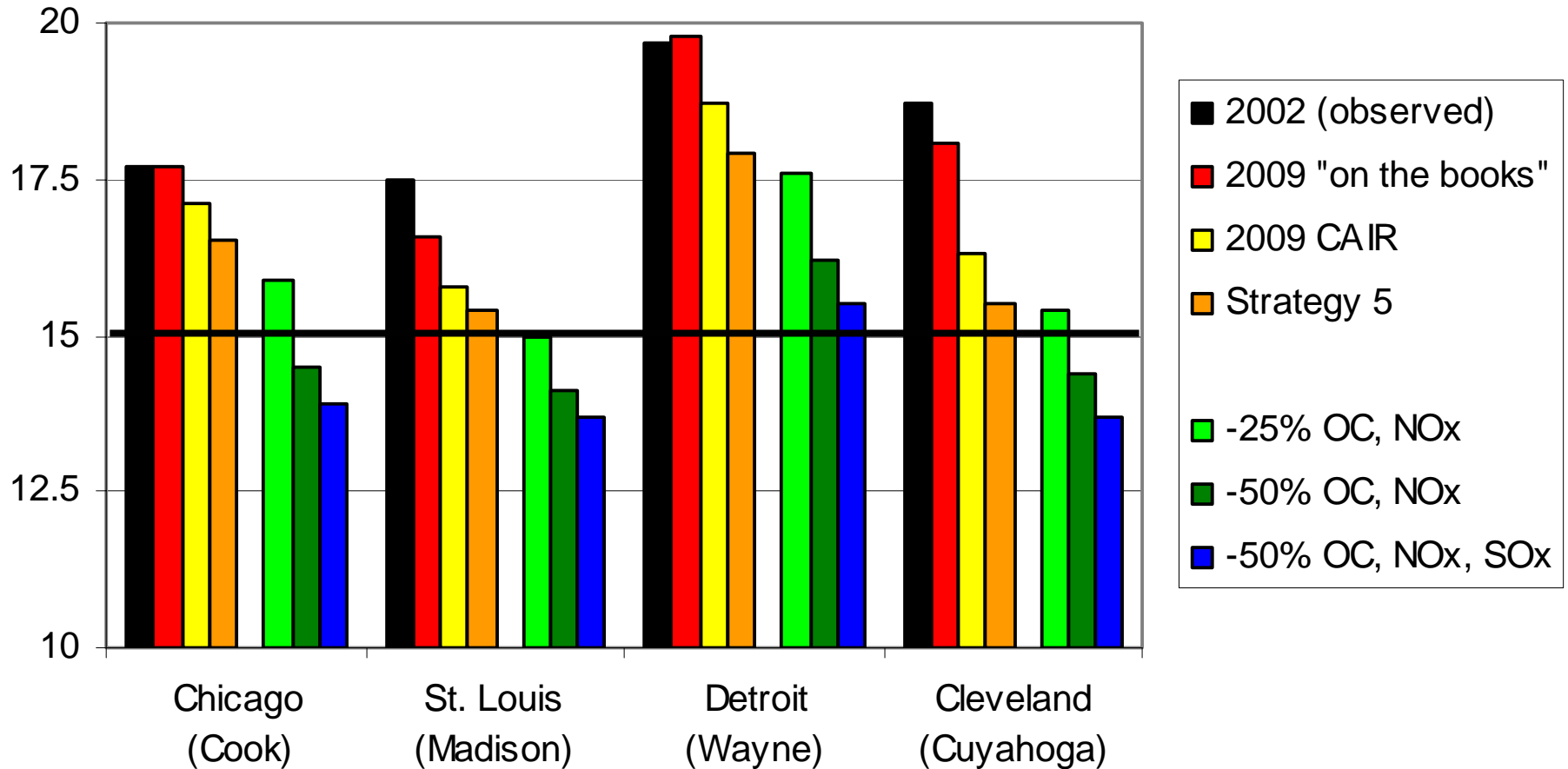
- Industrial Surface Coating
- Degreasing
- Architectural Coatings
- Portable Fuel Containers
- Consumer Products
- Auto Refinishing
- Gasoline Dispensing Facilities
- Asphalt Applications

# Ozone Design Values: High Monitors



*Strategy 5 = EGU1(5-state) + Area-VOC + ICI Boilers*

# PM<sub>2.5</sub> Design Values: High Monitors



*Strategy 5 = EGU1(5-state) + Area-VOC + ICI Boilers*



# Summary

- Attainment of NAAQS and haze goals
  - Existing (“on the books”) controls and new controls (CAIR) provide considerable air quality improvement, but are not enough for attainment at all sites
  - Initial (additional) candidate control measures are also not enough for attainment
  - Work is on-going to define the emission reduction targets (and control options) for all nonattainment areas
- Planning activities
  - Given SIP deadlines and timeframes for state rulemaking, need to make decisions on regional/local strategies in next 6-9 months