

# Outline

Revisions to Particulate Matter NAAQS –  
*past, present and future:*

- 1987
- 1997
- 2006
- 20XX

# National Ambient Air Quality Standards (NAAQS) for PM

**1971** Standard set for total suspended particulate matter (TSP)

**1987** Revised standard to focus on inhalable particles  $\leq 10 \mu\text{m}$  (PM<sub>10</sub>)

**1997** Revised standard to emphasize fine particles  $\leq 2.5 \mu\text{m}$  (PM<sub>2.5</sub>)

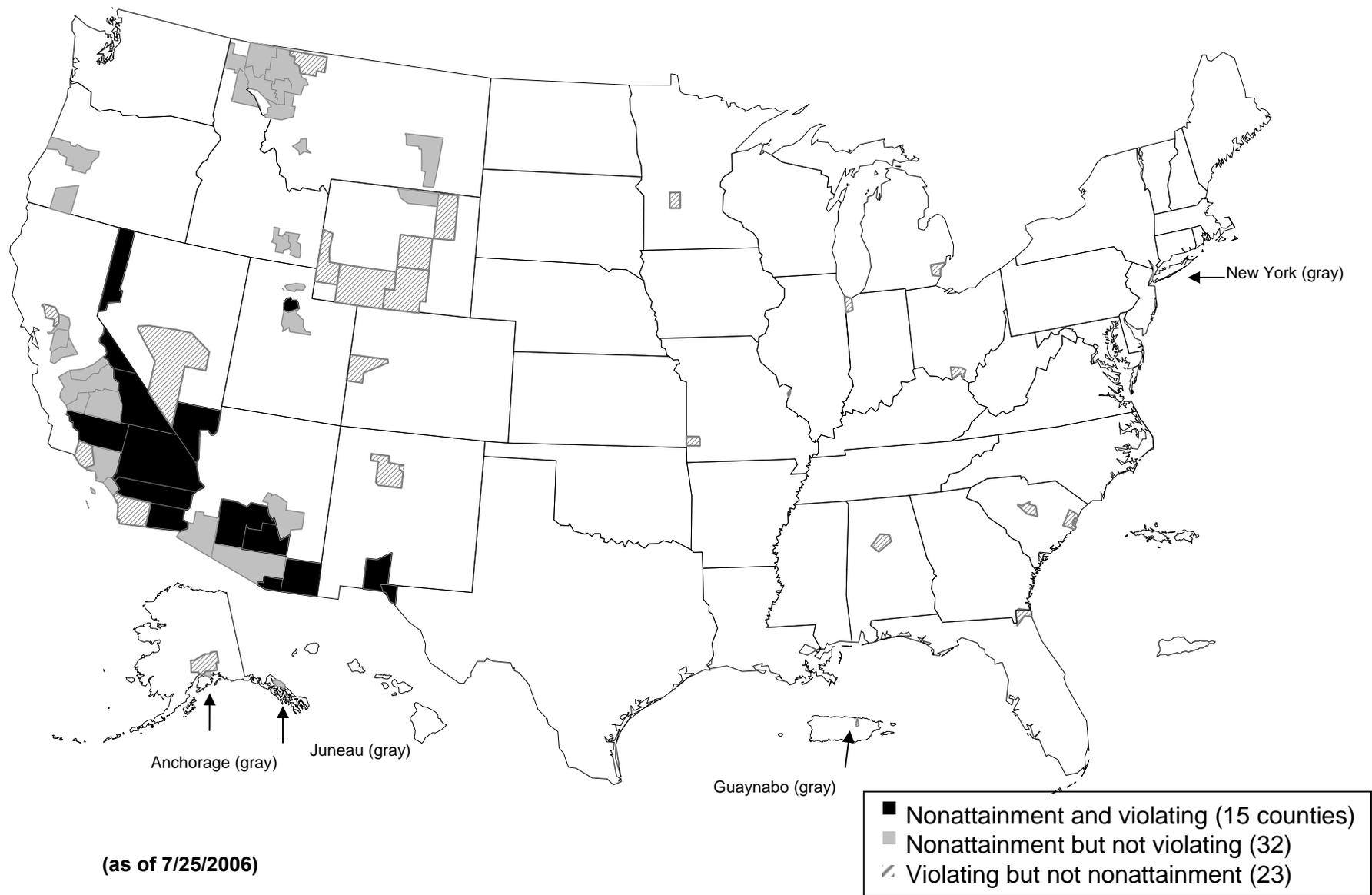
**2006** Further revisions tightened daily PM<sub>2.5</sub> standard

**20XX** Current review

# The 1987 Standards

	<b>1987 standards:</b>
<b>PM<sub>10</sub></b>	Annual: 50 $\mu\text{g}/\text{m}^3$ 24-hr: 150 $\mu\text{g}/\text{m}^3$

# ***PM<sub>10</sub> Designated Nonattainment and/or Violating (2003-2005) Counties***



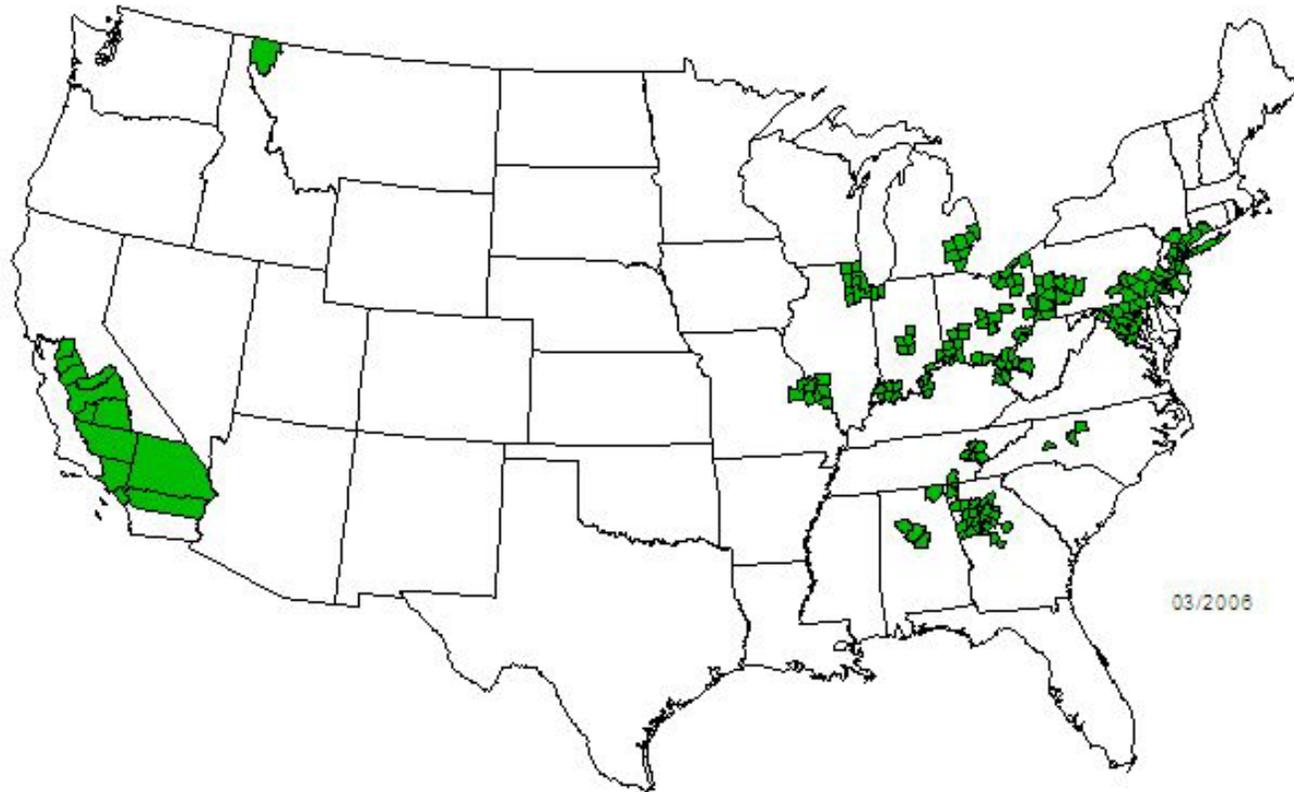
# The 1997 Standards

	<b>1997 standards:</b>
<b>PM<sub>2.5</sub></b>	Annual: 15 $\mu\text{g}/\text{m}^3$ 24-hr: 65 $\mu\text{g}/\text{m}^3$
<b>PM<sub>10</sub></b>	Annual: 50 $\mu\text{g}/\text{m}^3$ 24-hr: 150 $\mu\text{g}/\text{m}^3$

→ **Designations became effective April 5, 2005**

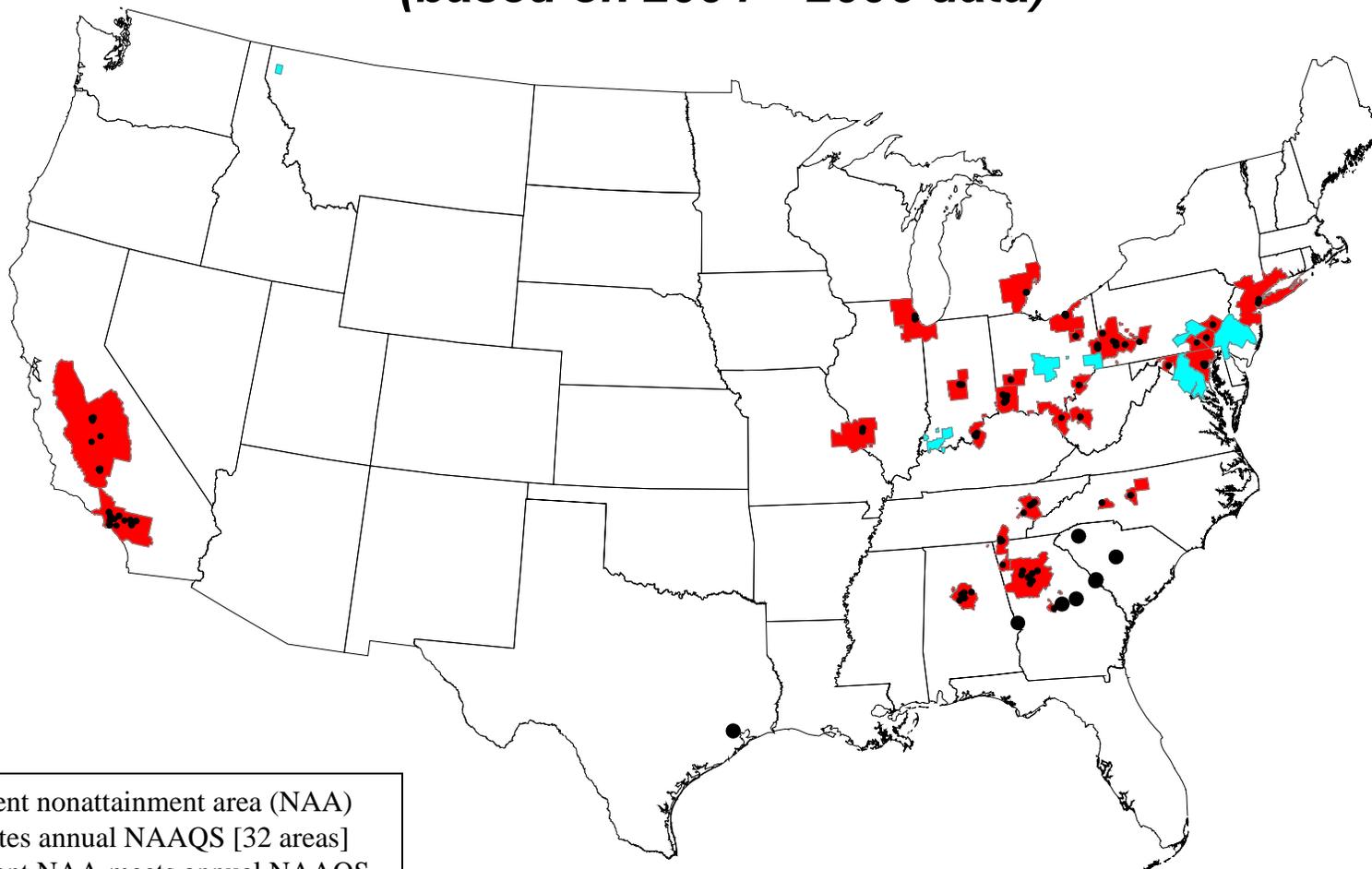
# Counties Designated Nonattainment for PM<sub>2.5</sub>

(March 2006)



Partial counties are shown as whole counties

# 1997 $PM_{2.5}$ Annual Standard Design Values (based on 2004 – 2006 data)



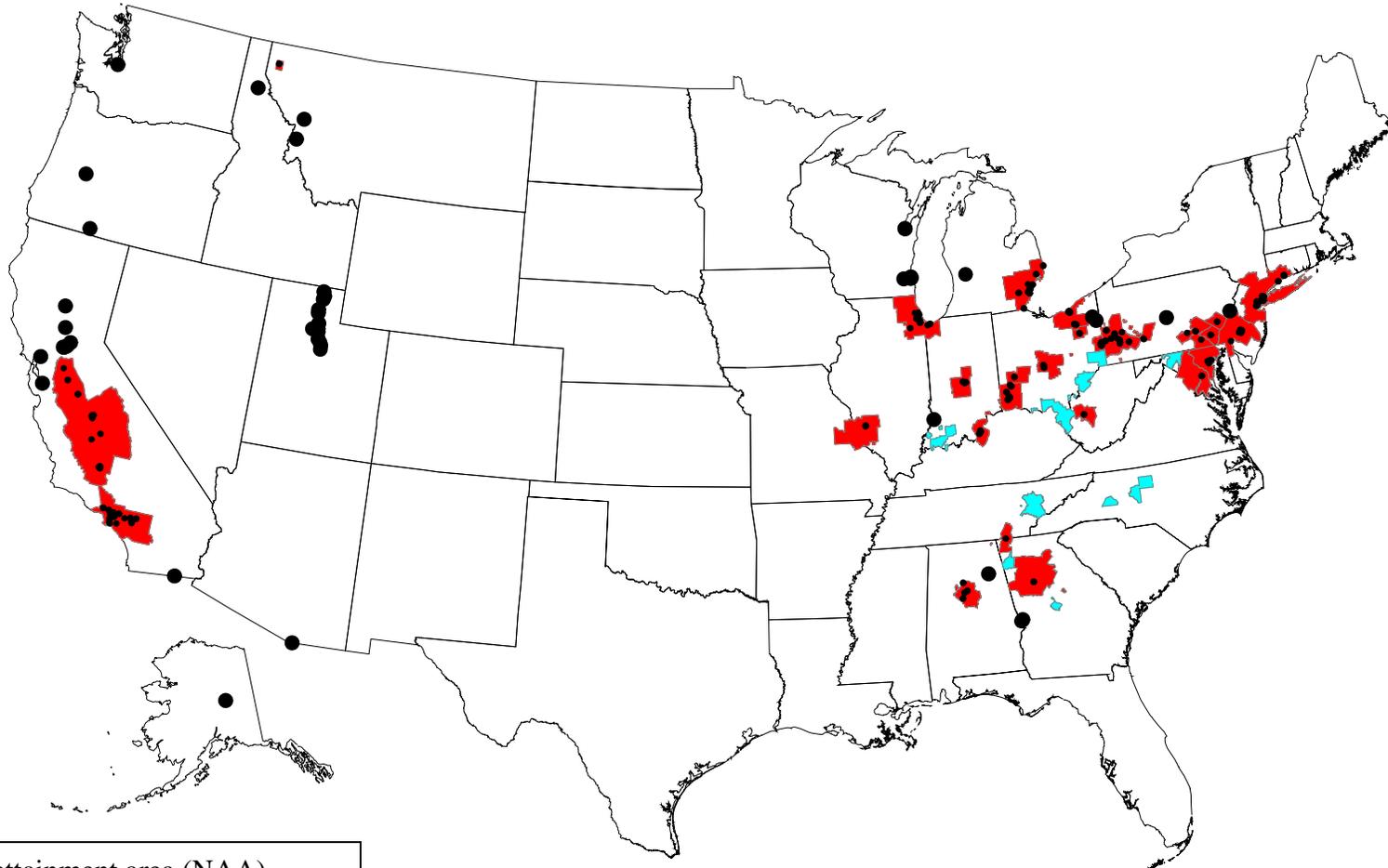
- Current nonattainment area (NAA) violates annual NAAQS [32 areas]
- Current NAA meets annual NAAQS [7 areas]
- Sites in current NAA violate the annual NAAQS (94 sites)
- Sites not in a current NAA violate the annual NAAQS (8 sites)

- 7 NAA clean for annual NAAQS: Libby, Columbus (OH), Evansville, Harrisburg, Philadelphia, Washington, Wheeling, but ...
  - Philadelphia has designated NAA sites that are incomplete.
  - Only Evansville and Wheeling are also clean for the 24-hr NAAQS
- 8 additional violating sites (not in NAA) are located in 7 areas:
  - Greenville, SC (Unclassifiable area); Augusta, GA; Columbia, SC; Columbus, GA; Houston, TX; Washington County, GA; and Wilkinson County, GA

# 2006 PM Standards

	<b>1997 standards:</b>	<b>2006 standards:</b>
<b>PM<sub>2.5</sub></b>	Annual: 15 $\mu\text{g}/\text{m}^3$ 24-hr: 65 $\mu\text{g}/\text{m}^3$	Annual: 15 $\mu\text{g}/\text{m}^3$ 24-hr: <u>35</u> $\mu\text{g}/\text{m}^3$
<b>PM<sub>10</sub></b>	Annual: 50 $\mu\text{g}/\text{m}^3$ 24-hr: 150 $\mu\text{g}/\text{m}^3$	Annual: <u>revoked</u> 24-hr: 150 $\mu\text{g}/\text{m}^3$

## Areas/Sites Violating 24-Hour PM<sub>2.5</sub> NAAQS (based on 2004-2006 data)



- Current nonattainment area (NAA) violates 24-hr NAAQS [29 areas]
- Current NAA meets 24-hr NAAQS [10 areas]
- Sites in current NAA violate the 24-hr NAAQS [131 sites / 29 areas]
- Sites not in a current NAA violate the 24-hr NAAQS [48 sites / 32 areas]

## *Schedule for the Current Review*

Major Milestones		Projected Completion Date	Projected CASAC Review Date
Workshops to Discuss Key Policy-Relevant Issues		July 2007 (complete)	
Integrated Review Plan	Draft Final	October 2007 (complete) February 2008	November 30, 2007 (complete)
Integrated Science Assessment	First Draft Second Draft Final	September 2008 March 2009 September 2009	November 2008 May 2009
Risk/Exposure Assessment	Plan First Draft Second Draft Final	October 2008 April 2009 November 2009 March 2010	November 2008 May 2009 January 2010
Policy Assessment/Rulemaking	ANPR Proposed Final	June 2010 January 2011 October 2011	August 2010

\*Indicates that a single CASAC meeting will address both documents

# Timeline for PM<sub>2.5</sub> NAAQS Implementation

(1997, 2006, and 20XX standards)

<b>December 2004</b>	<b>Final designations for 1997 PM<sub>2.5</sub> standards (effective date April 5, 2005)</b>
<b>April 2008</b>	<b>PM<sub>2.5</sub> State plans due for 1997 standards</b>
<b>December 2008</b>	<b>Final designations for 2006 PM<sub>2.5</sub> standards (effective date 90 days later: ~April 2009)</b>
<b>April 2010 (2015 w/ extension)</b>	<b>Attainment date for areas designated in 2005 for 1997 standards</b>
<b>April 2012</b>	<b>PM<sub>2.5</sub> State plans due for 2006 standards</b>
<b>April 2014 (2019 w/ extension)</b>	<b>Attainment date for areas designated in 2009 for 2006 standards</b>
<b>September 2009</b>	<b>Integrated Science Assessment</b>
<b>March 2010</b>	<b>Risk/Exposure Assessment</b>
<b>October 2011</b>	<b>Rulemaking on revision to standards</b>