

# Particulate Pollution Update

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**MAG Regional Council**

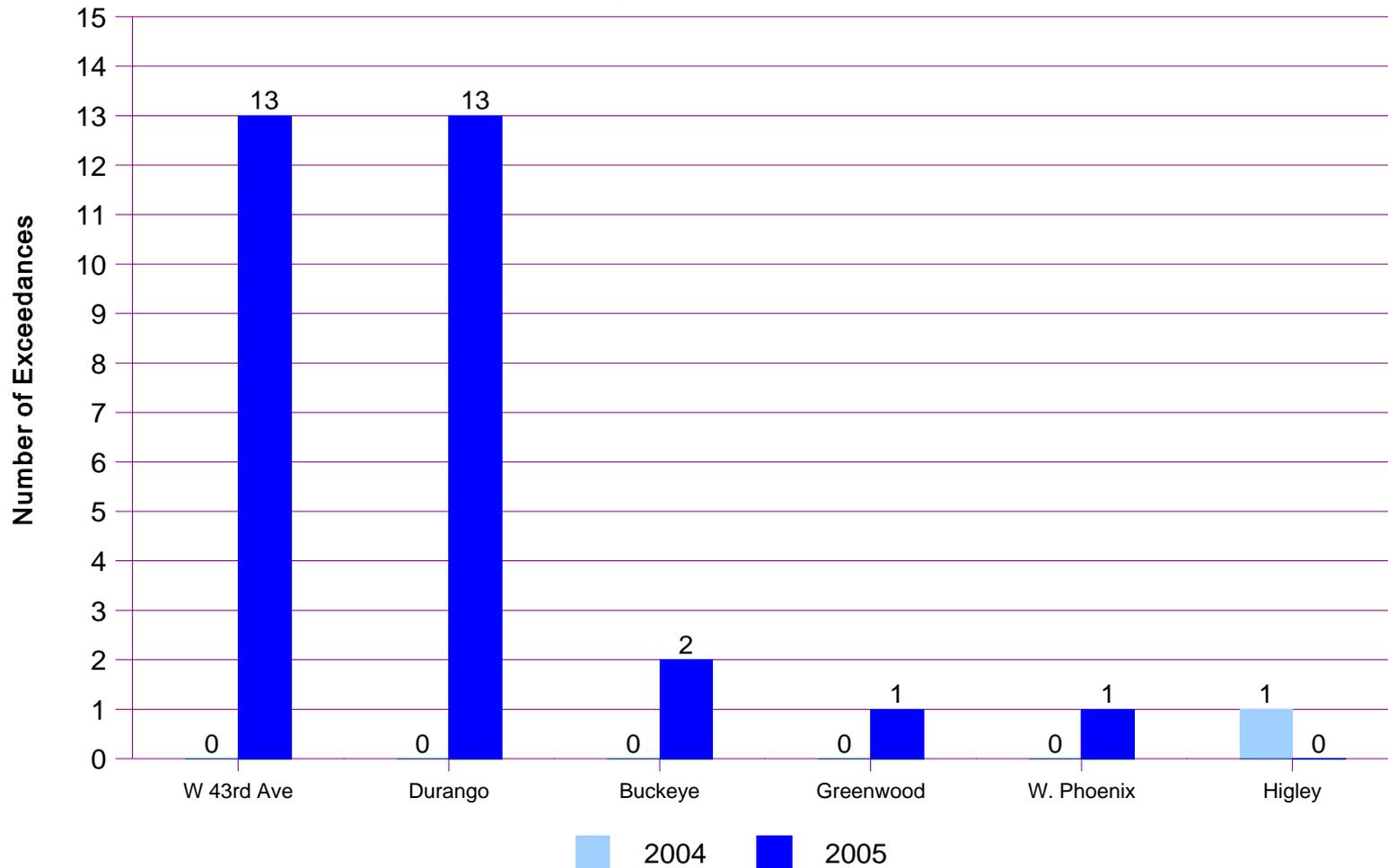
**January 25, 2006**



# PM-10 Monitor Data

PM-10 Monitor Data 2004-2005

## NUMBER OF 24-HR PM-10 EXCEEDANCE DAYS Maricopa County, Arizona

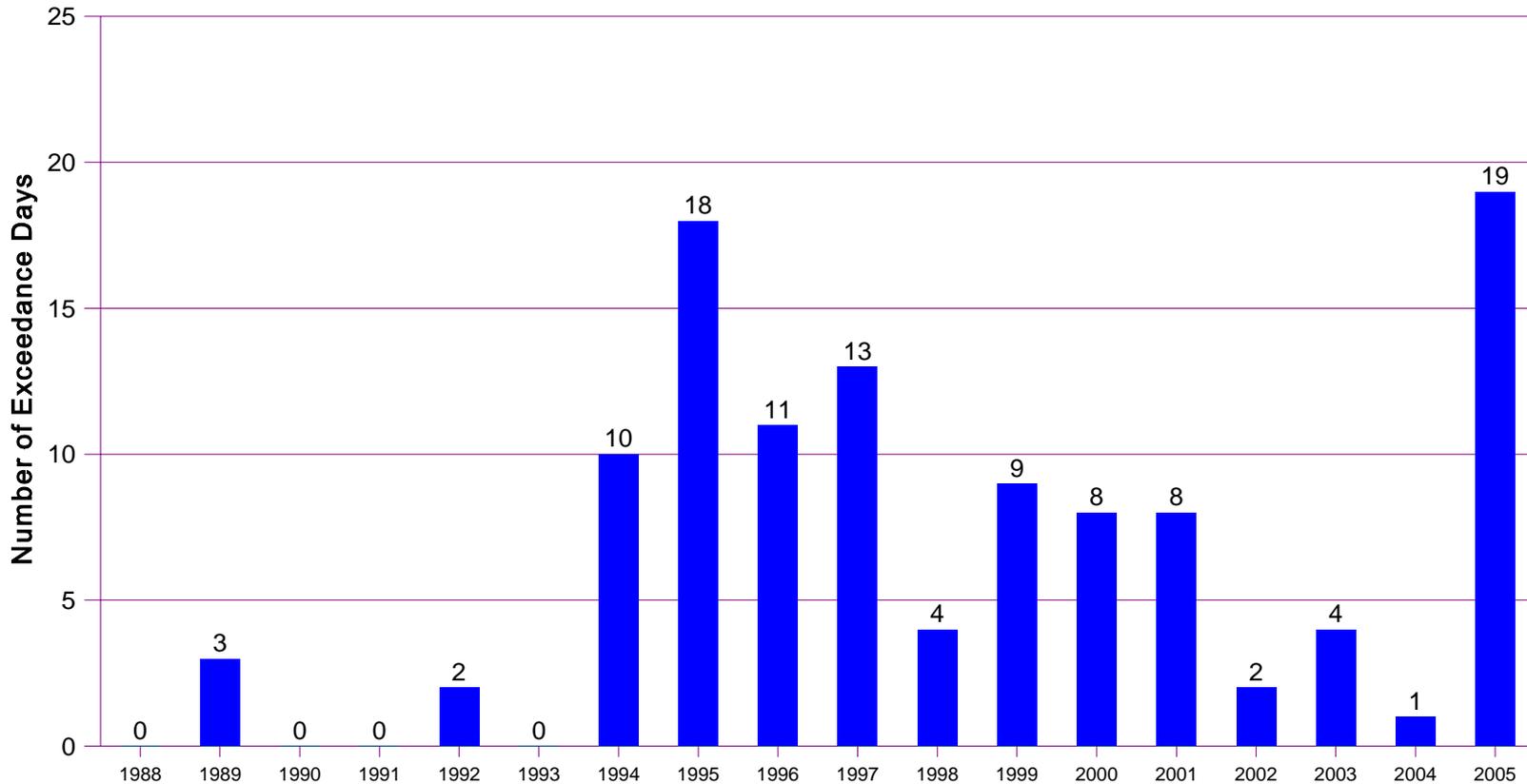


# PM-10 Monitor Data

ENVIRONMENTAL  
SERVICES

## PM-10 Monitor Data

### NUMBER OF 24-HR PM-10 EXCEEDANCE DAYS Maricopa County, Arizona



\*August 13 and September 18, 2004 data flagged for natural events.  
Data subject to change.

Reported by the Maricopa  
Association of Governments 2004



# PM-10 5 Percent Plan (Clean Air Act Sec. 189)

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- **Plan due December 31, 2007**
- **5 percent reduction in emissions per year until standard is attained**
- **Based upon most recent emissions inventory (2005)**
- **3 years of clean data needed for attainment (07, 08, 09)**



# 2006 Regional PM-10 Emissions Reflecting Committed Control Measures

## (Percent Total Emissions)

### Area Sources 20.2%

- Disturbed Vacant Land and Agricultural Windblown Dust 12.4%
- Agricultural Dust 2.9%
- Other Area Sources 3.9%
- Residential Wood Burning 1.0%

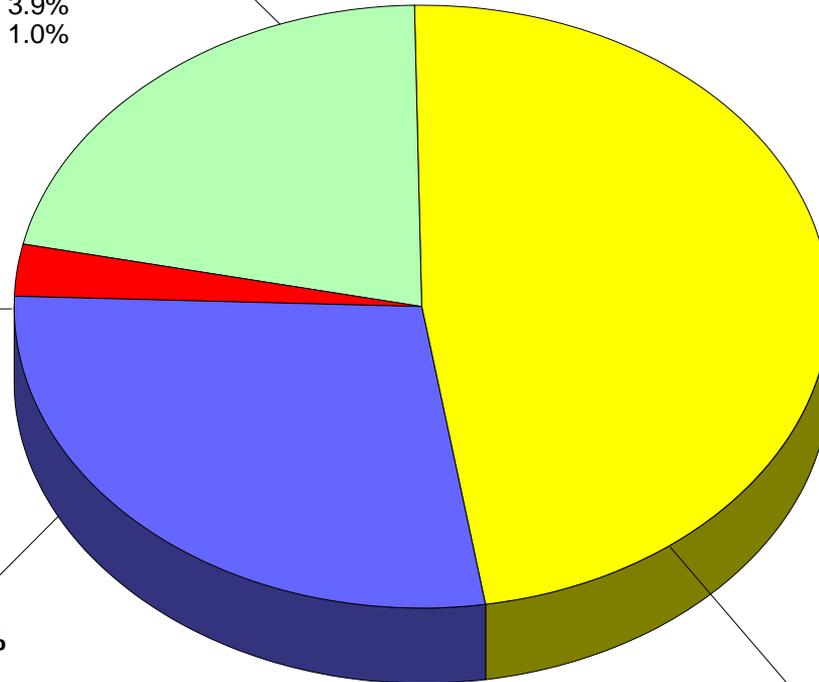
### Point Sources 2.5%

### Nonroad Sources 32.1%

- Construction/Earth Moving Dust 14.5%
- Construction Trackout 8.2%
- Nonroad Engine Exhaust 7.8%
- Construction Windblown Dust 1.6%

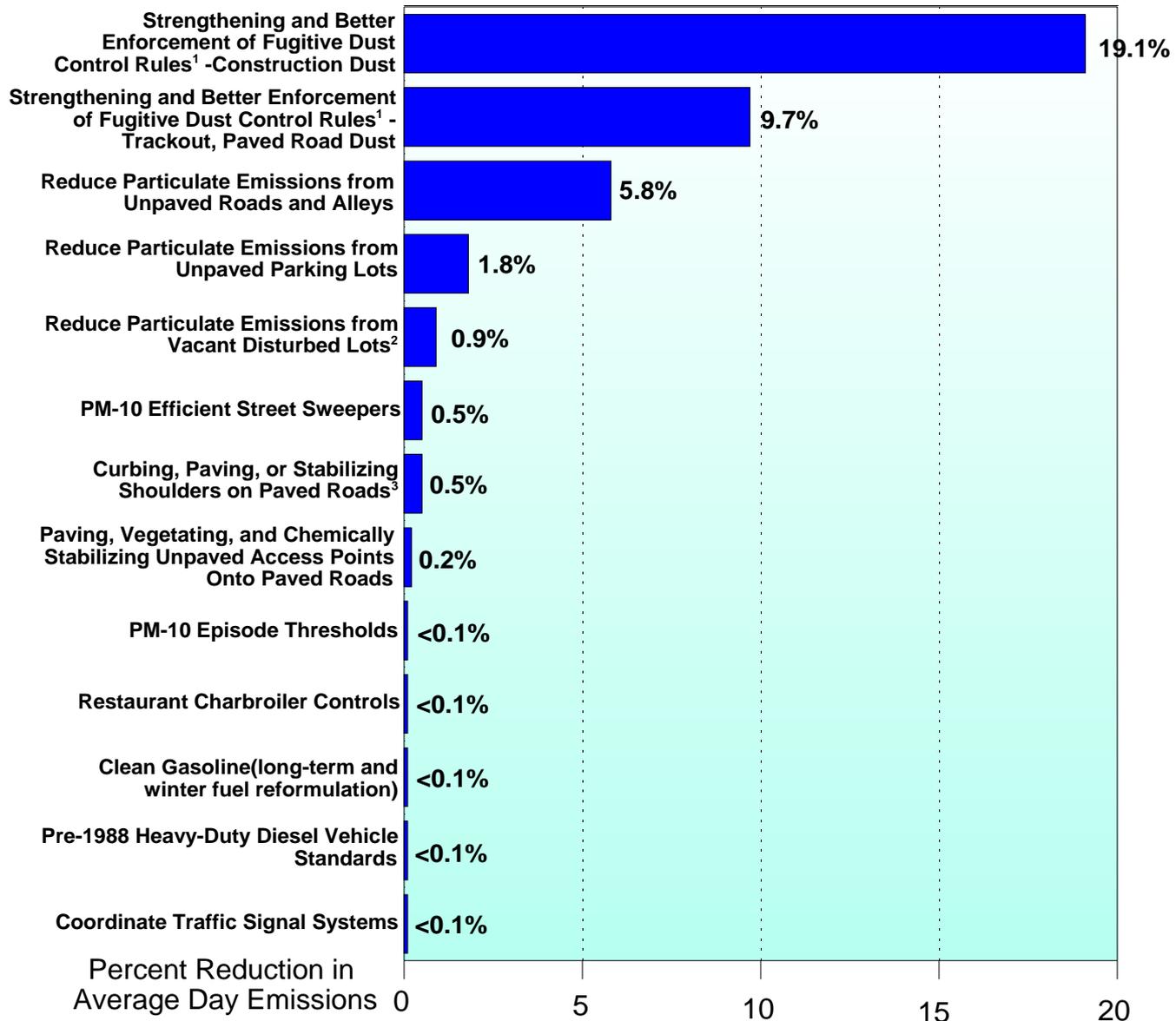
### Onroad Sources 45.2%

- Paved Road Dust 31.2%
- Unpaved Road Dust 11.9%
- Onroad Vehicle Exhaust 2.1%



# 2006 PM-10 Emission Reductions

## From Committed Control Measures



NOTES:

<sup>1</sup>In addition, the emission reduction includes Dust Control Plans for Construction/Land Clearing and Industrial Sites

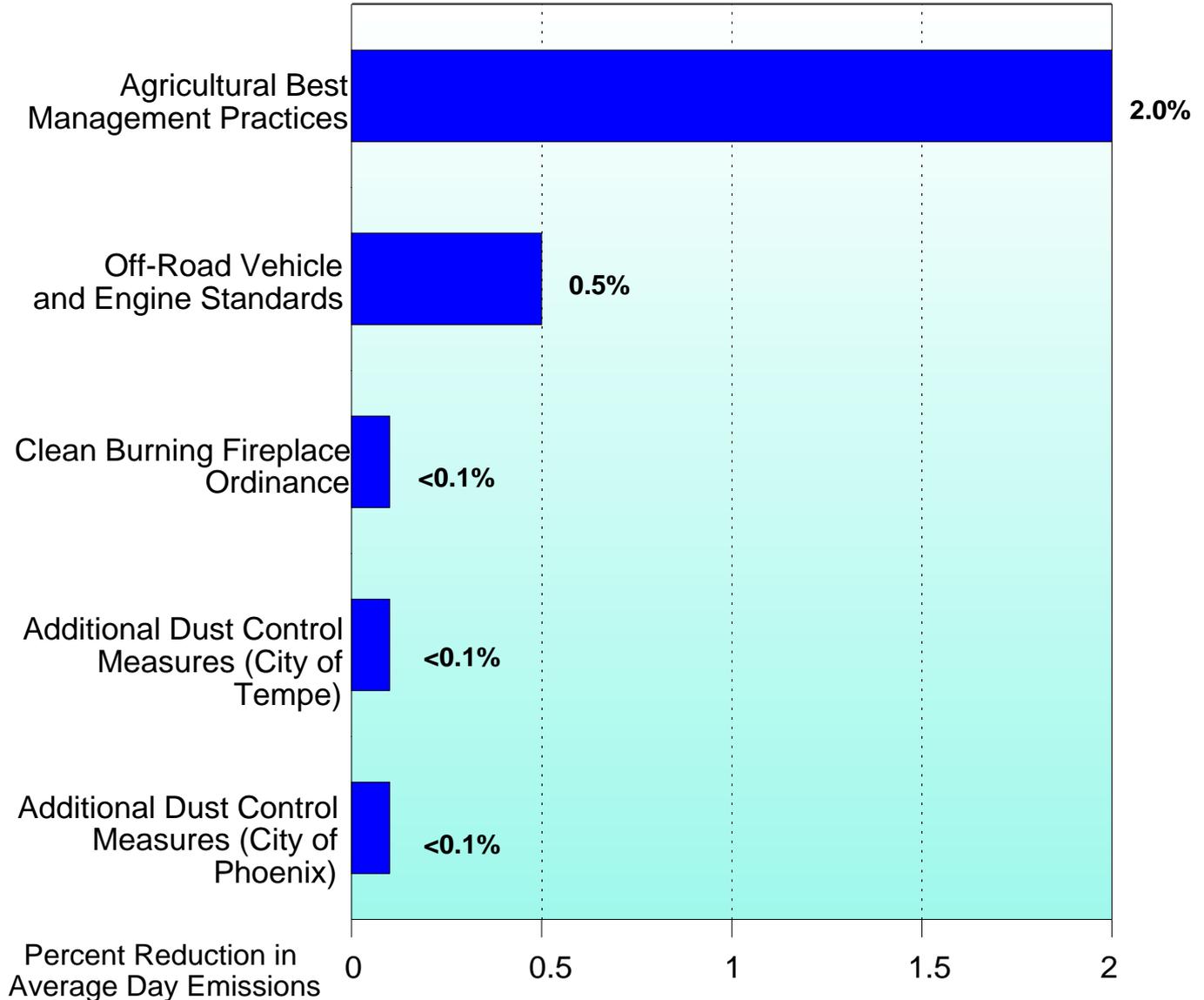
<sup>2</sup>In addition, the emission reduction includes Dust Abatement and Management Plan for State Lands

<sup>3</sup>In addition, the emission reduction includes Reduce Particulate Emissions from Unpaved Shoulders on Targeted Arterials



# 2006 PM-10 Emission Reductions

## From Contingency Control Measures





# PM-10 5 Percent Plan Tentative Schedule

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**Apr 2007-Research on potential control measures for consideration**

**Jun 2007-MOBILE6 and dispersion modeling**

**Sept 2007-Document available**

**Oct 2007-Public hearing**

**Oct 2007-Air Quality Technical Advisory Committee recommendation**

**Nov 2007-Regional Council action**

**Dec 2007-Submit to ADEQ/EPA**

**Mar 2008-EPA adequacy finding for conformity budget**

# Clean Air Act Sanctions

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## ■ Sanctions imposed for

- Failure to submit plan
- Failure to implement any plan requirement
- Failure to make any required submission
- EPA disapproval of plan

## ■ Sanctions timeline

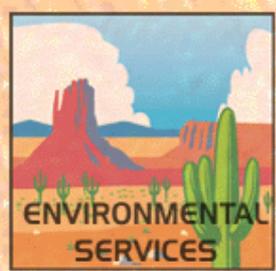
- 18 months - Tighter controls on major industries (2 to 1 offsets in emissions)
- 24 months - Loss of federal highway funds and federal implementation plan



# Failure to Attain the Standards

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- **Continue to add more measures to reduce emissions by 5 percent per year until attainment is met, as measured by the monitor data**
- **Best Course of Action - Attain the standards as quickly as possible**





# EPA Proposes New Particulate Standards (Dec 20, 2005)

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- **Stricter fine particulate standard**
- **New coarse particulate standard**
- **Revoke 24-hour PM-10 standard EXCEPT in areas with violating monitors and a population of 100,000 or more**
- **24-hour PM-10 standard will remain in place until July 2013 for this region**
- **Legal challenges may occur**

# Recent Actions

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- **Observations at monitors by ADEQ, Maricopa County, and MAG**
- **Representatives from Phoenix, Maricopa County, and MAG met to step up dust control efforts in hotspot areas**
  - Daily street sweeping pilot test
  - Dust suppressants on unpaved shoulders
  - Police enforcement for speed limits, parking on shoulders, passing
  - Traffic controls
  - Unpaved parking lot enforcement





# Recent Actions

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- **No parking signs**
- **Inquiry on ADEQ enforcement of agricultural measures**
- **Information on potential PM-10 industrial sources in hotspot areas provided to the Arizona Rock Products Association**
- **Peoria approach for dust control sent to MAG member agencies**
- **MAG workshop on model dust control ordinance and best practices on February 10, 2006**

For more information

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**[www.mag.maricopa.gov](http://www.mag.maricopa.gov)**

