

Air Quality Update

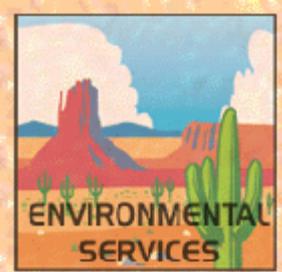
MAG Management Committee

October 3, 2007



Main Points

- Update on Five Percent Plan for PM-10
- Local government requirements in S.B.1552
 - Plan for dirt roads, alleys, and shoulders
 - Ordinances for unpaved parking, vacant lots, leaf blower debris on roads, and off-highway vehicles
- Clean ozone data at monitors



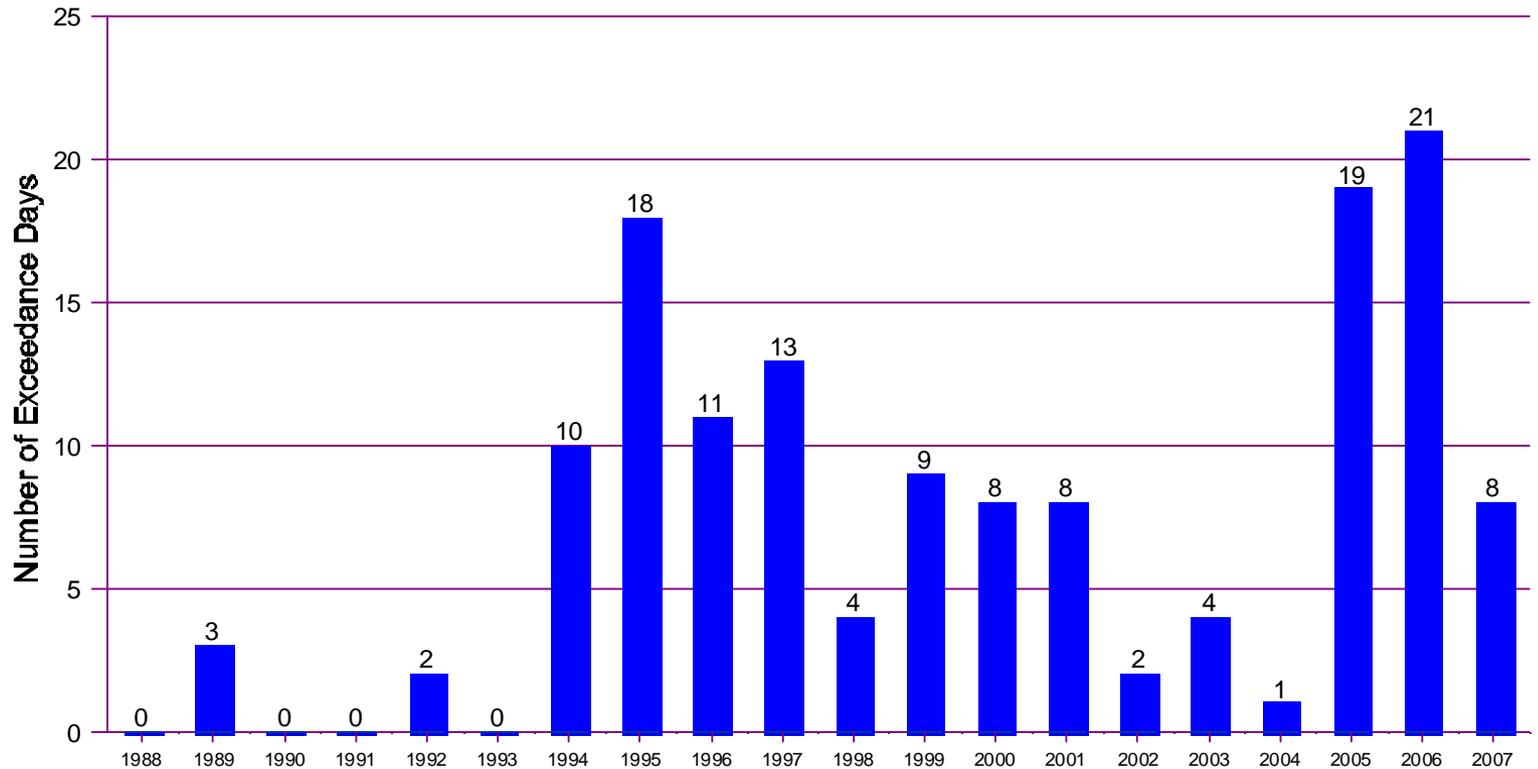


Five Percent Plan for PM-10

- Required by Clean Air Act Section 189(d)
 - For Serious PM-10 nonattainment areas that do not meet the standard by the attainment date (i.e., December 31, 2006)
- Plan due to EPA one year later
 - December 31, 2007
- Plan must show 5 percent per year reduction in emissions until standard is attained at the monitors
 - Based upon the most recent emissions inventory (i.e., 2005 projected to 2007)
- Plan must also demonstrate attainment via modeling

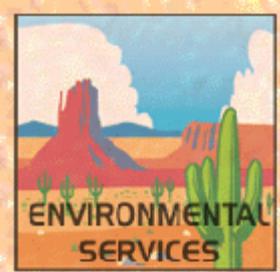
PM-10 Monitoring Data

DAYS EXCEEDING THE 24-HOUR PM-10 STANDARD IN MARICOPA COUNTY



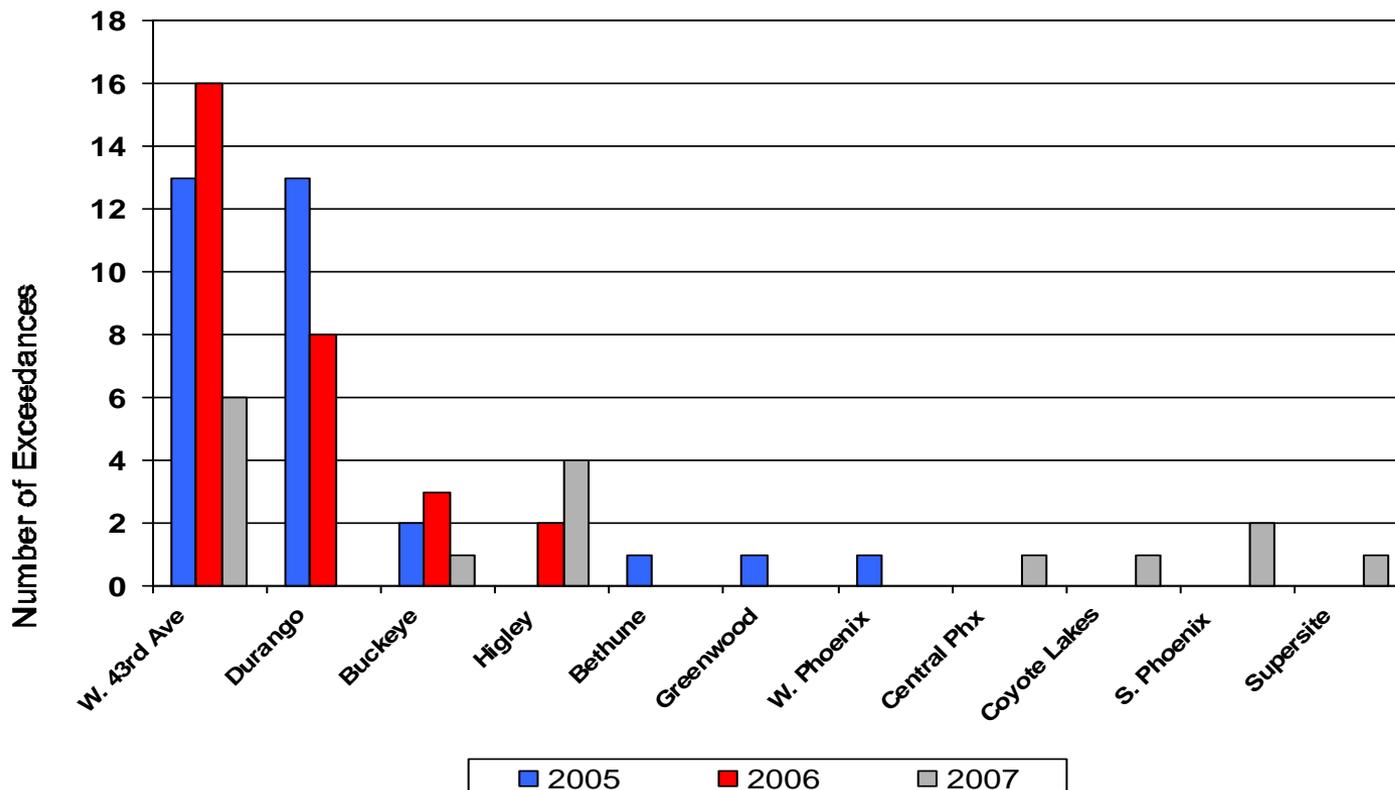
Notes:

1. Exceedance days that are approved or pending approval by EPA as natural or exceptional events have been removed from this chart.
2. Most of the exceedances before 2004 were recorded by filter-based monitors that measured PM-10 concentrations on every sixth day. Since 2004, the filter-based monitors that exceeded the PM-10 standard have been replaced with monitors that measure PM-10 concentrations every day.
3. Data through August 23, 2007; 2007 exceedance days may be flagged by EPA as natural or exceptional



PM-10 Monitoring Data

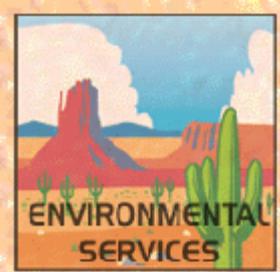
EXCEEDANCES OF THE 24-HR PM-10 STANDARD AT MONITORS IN MARICOPA COUNTY



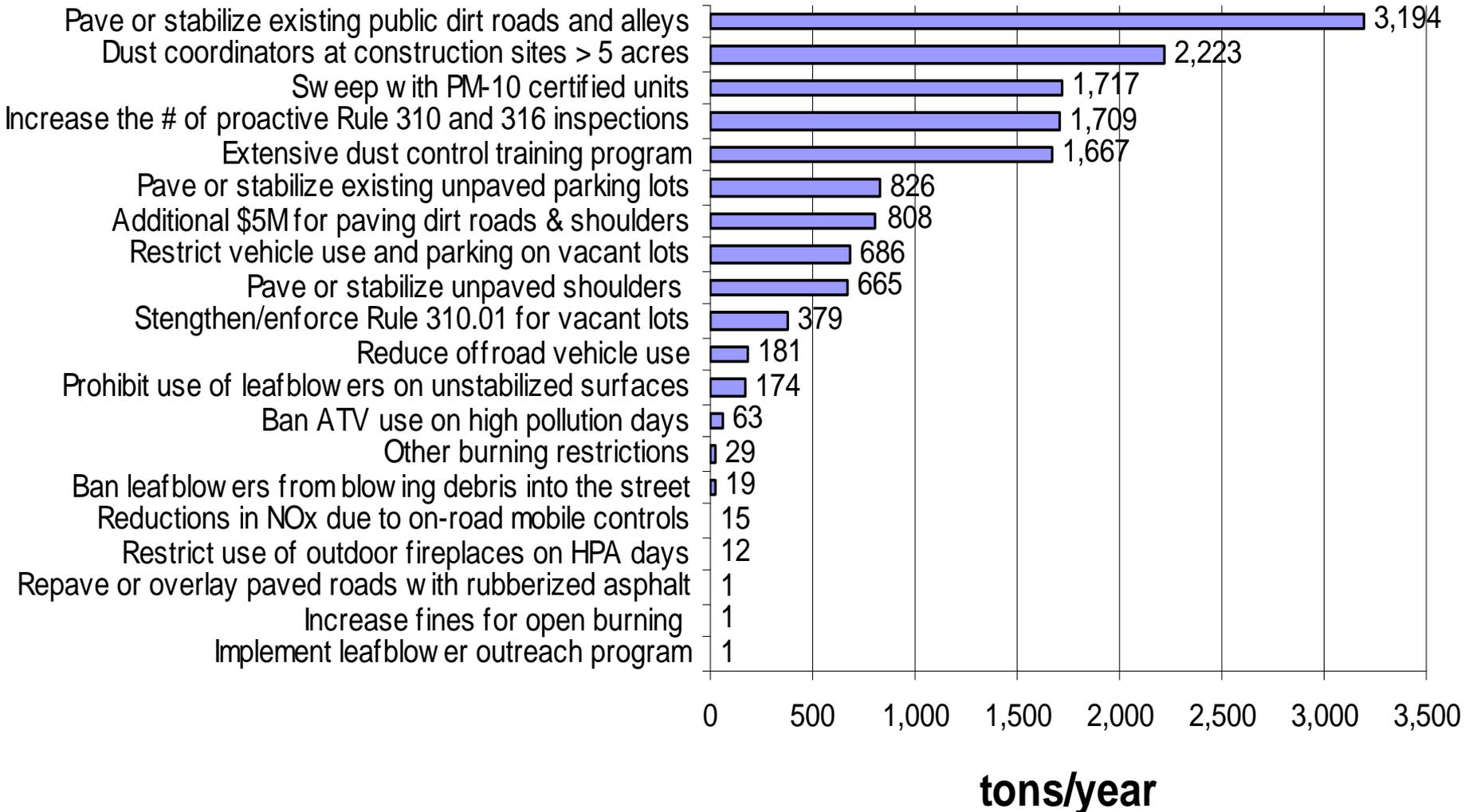
- Notes:
1. Exceedances that have been approved or are pending approval by EPA as natural or exceptional events have been removed from this chart.
 2. The exceedance at the Bethune, Greenwood, and W. Phoenix monitors occurred on 12/12/05.
 3. The exceedance at Central Phx, Coyote Lakes, South Phx and Supersite occurred on 7/19/07.
 4. Data as of 8/23/07. 2007 exceedances may be flagged by EPA as natural or exceptional events.

Status of Commitments for the MAG Five Percent Plan for PM-10

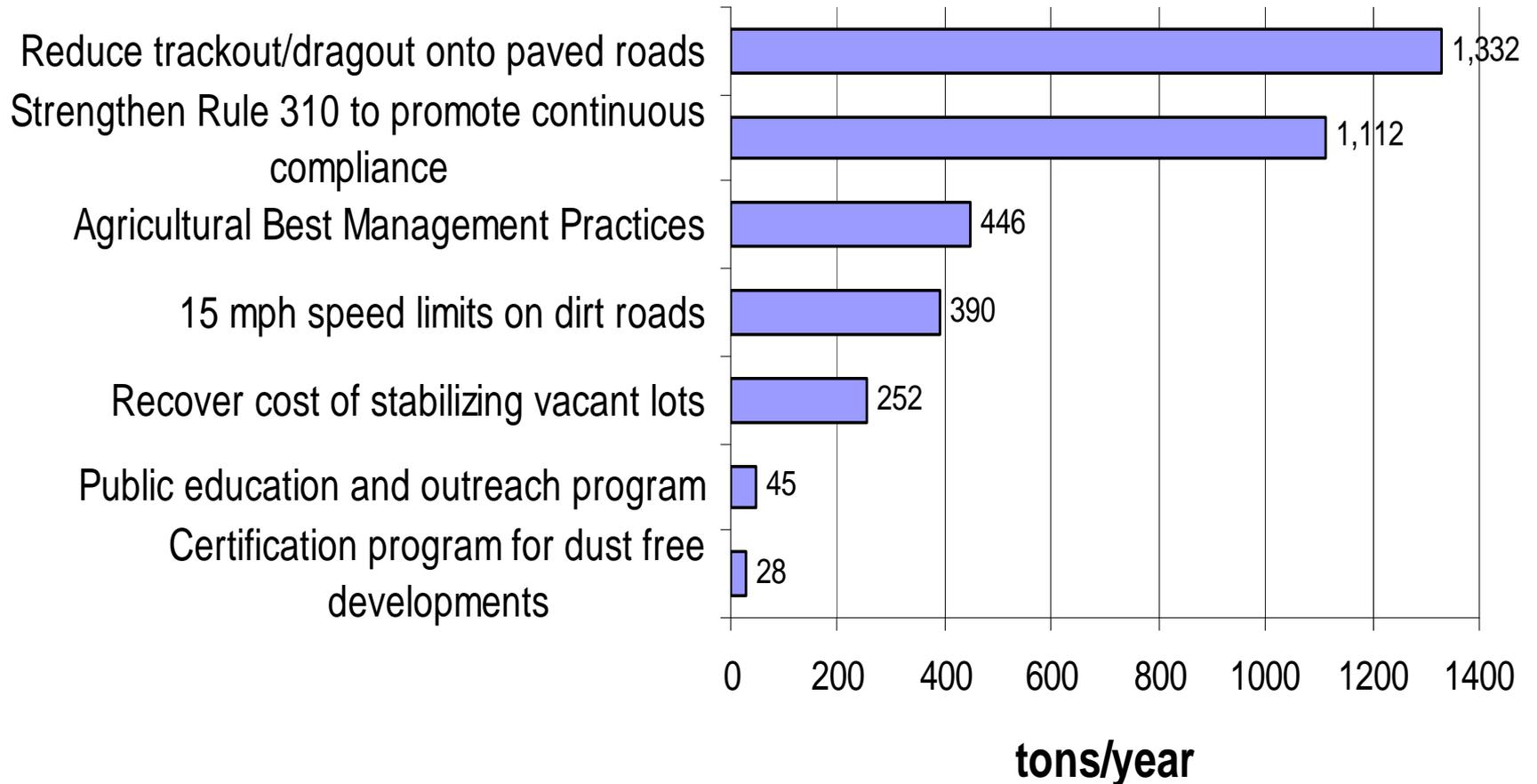
- Legislature passed SB 1552 in June 2007
- Commitments from ADOT and all cities and towns in the PM-10 nonattainment area have been received by MAG
- Maricopa County Board of Supervisors passed a \$23M package of commitments on 9/10/07
 - Includes hiring 91 additional personnel to assist in training and enforcement of fugitive dust rules
- Commitments by cities and towns to pave and stabilize unpaved roads, alleys and shoulders
 - Roads and alleys
 - 114 miles paved by 2010
 - 162 miles stabilized in 2010
 - Shoulders
 - 91 miles paved by 2010
 - 198 miles stabilized in 2010



Reductions in 2010 for Committed Control Measures in the Five Percent Plan for PM-10



Reductions in 2010 for Committed Contingency Measures in the Five Percent Plan for PM-10





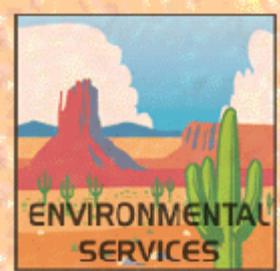
Reductions for Quantified Measures

- **Draft Emission Reductions**

- Measures to meet the Five Percent Requirement
 - 4,958 vs 4,730 target in 2008
 - 9,701 vs 9,460 target in 2009
 - 14,371 vs 14,190 target in 2010
- Measures to meet the Contingency Requirement
 - 3,878 vs 3,533 target in 2008
 - 4,307 vs 3,533 target in 2009
 - 3,604 vs 3,533 target in 2010

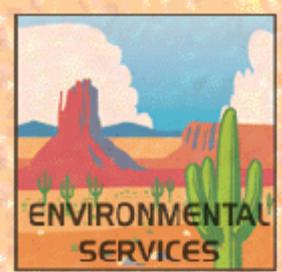
MAG Initiatives Supporting the Five Percent Plan

- MAG allocated an additional \$5M in FY07 federal funds to pave dirt roads and shoulders
 - Projects submitted to pave 15 miles of roads; 45 miles of shoulders
- MAG unpaved road inventory
 - Cities and towns identified 220 miles of unpaved roads located in county islands
 - MAG prepared maps of unpaved roads for municipal planning areas in the PM-10 nonattainment area
 - Used GIS, 2006 aerial imagery, and a MCDOT database
 - Cities and towns are verifying the maps with comments and corrections due to MAG by October 1, 2007
 - Baseline for measuring progress in eliminating dirt roads
- Fall 2007 MAG Workshop
 - Implementation and tracking of commitments
 - Early preparation for reporting to the Legislature



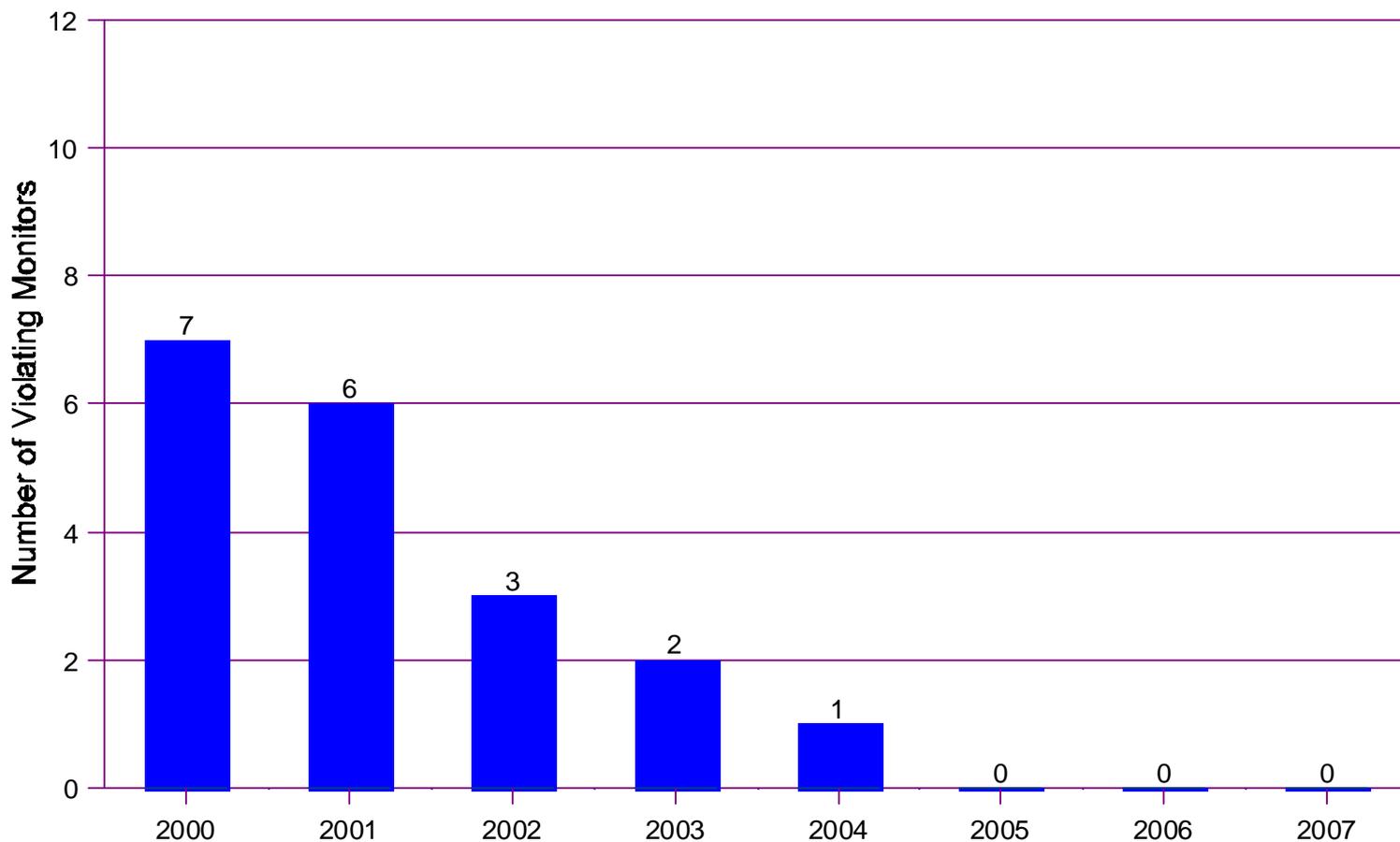
S.B. 1552 Requirements

- **January 1, 2008** - Plans to stabilize unpaved roads, alleys and unpaved shoulders on targeted arterials (cities, towns in Area A, Maricopa County)
- **March 31, 2008** - Ordinances to stabilize unpaved parking areas, restrict vehicle parking and use on vacant lots, and ban the blowing of landscape debris into public roadways (cities, towns in Area A, Maricopa County)
- **March 31, 2008** - Ordinance to prohibit the operation of off-highway vehicles on unauthorized unpaved surfaces (cities, towns in Area A)
- **June 1 and Dec. 1, 2008 and 2009** – Submit particulate enforcement reports to Joint Legislative Budget Committee (cities, towns, and Maricopa County in PM-10 nonattainment area)
- **2008 and 2009** – State Air Quality Study Committee will review implementation and enforcement of measures



8-Hour Ozone Monitoring Data

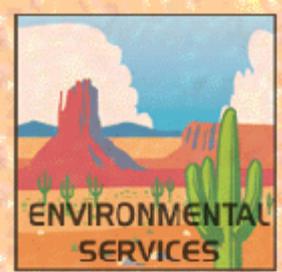
VIOLATIONS OF THE 8-HOUR OZONE STANDARD IN THE MARICOPA NONATTAINMENT AREA



ENVIRONMENTAL
SERVICES



MARICOPA
ASSOCIATION of
GOVERNMENTS



For more information

Lindy Bauer, MAG
(602) 254-6300

www.mag.maricopa.gov

