

Update on the MAG Five Percent Plan for PM-10

MAG Management Committee

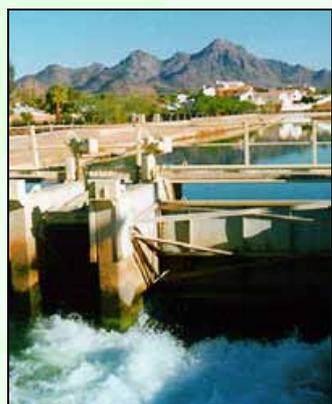
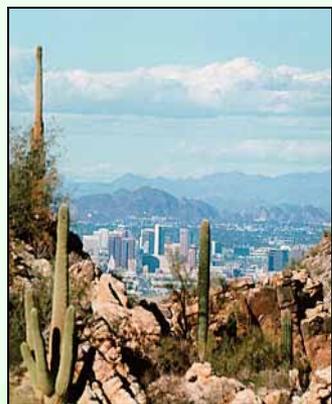
June 8, 2011




 ENVIRONMENTAL
PROGRAMS

Preliminary Projections of 2011-2012 PM-10 Emissions

- n Based on the revised 2008 Periodic Emissions Inventory published by MCAQD in March 2011
 - l New EPA paved road emissions equation
- n Growth factors are based on projections for the Phoenix metropolitan area released on 5/10/11 by Marshall Vest, Economic and Business Research Center, U of AZ



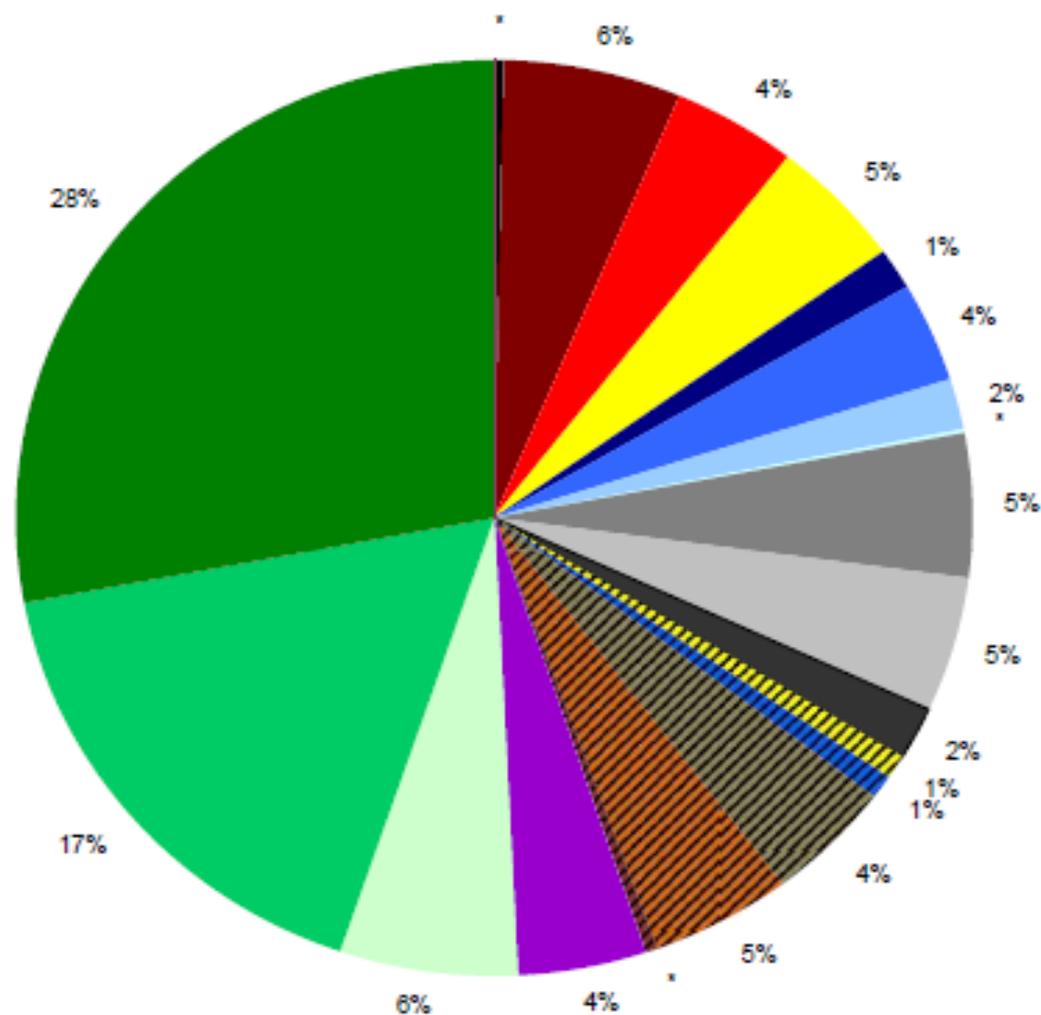
	<u>Population</u>	<u>Employment</u> <u>Construction</u>	<u>Manufacturing</u>
2008-2009	+0.6%	-31.1%	-11.4%
2009-2010	- 0.9%	-16.0%	-3.2%
2010-2011	- 0.8%	-23.6%	+2.2%
2011-2012	0.0%	-5.7%	+3.8%

DRAFT PROJECTED 2011 PM₁₀ Emissions Inventory (May 2011)

PM₁₀ NAA Total = 41,260 tons/yr

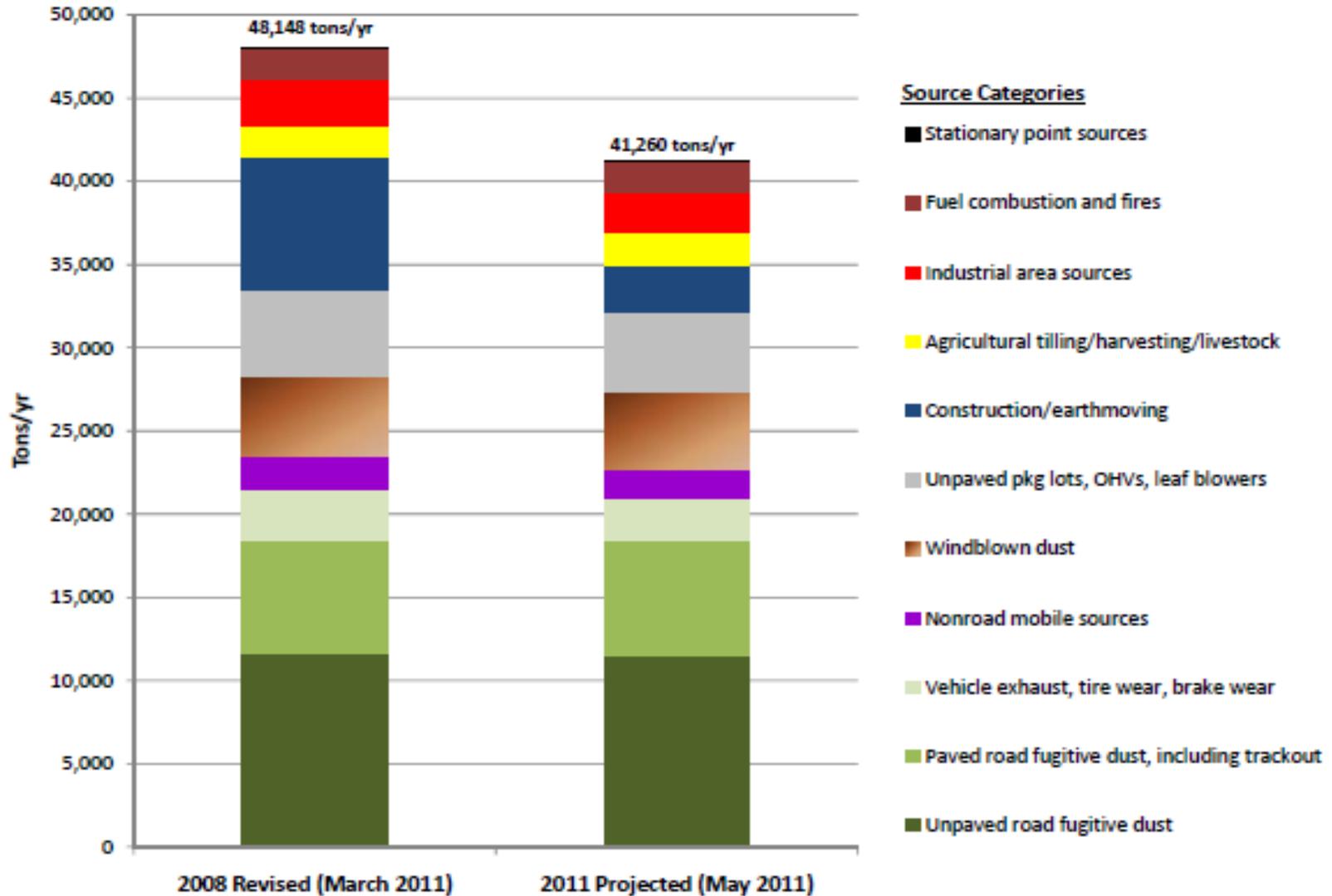
Source Categories %

Source Category	%
Major stationary point sources	(<0.5%)
All other industrial processes	(6%)
Fuel combustion and fires	(4%)
Agricultural tilling/harvesting/livestock	(5%)
Construction, residential	(1%)
Construction, commercial	(4%)
Construction, road	(2%)
Other earthmvg: trenching, weed control	(<0.5%)
Travel on unpaved parking lots	(5%)
Offroad recreational vehicles fugitive dust	(5%)
Leaf blowers fugitive dust	(2%)
Windblown: agricultural land	(1%)
Windblown: developing land	(1%)
Windblown: vacant land	(4%)
Windblown: open areas	(5%)
Windblown: S&G, landfills, test tracks	(<0.5%)
Nonroad mobile sources	(4%)
Vehicle exhaust, tire wear, brake wear	(6%)
Paved road fugitive dust, including trackout	(17%)
Unpaved road fugitive dust	(28%)



* Source category comprises less than 0.5% of total.

Comparison of Revised 2008 PM10 Emissions and Draft Projected 2011 PM10 Emissions



Preliminary Projections of 2011-2012 PM-10 Emissions

- n Total PM-10 Emissions
 - | 2008 – 48,148 tons
 - | 2011 – 41,260 tons
 - | 2012 – 40,800 tons
- n 5% reduction based on 2011 emissions
 - | $.05 \times 41,260 = 2,063$ tons
- n Actual tons reduced in 2012
 - | $41,260 - 40,800 = 460$ tons
- n Additional reduction needed to meet 5% target in 2012
 - | 1,603 tons



Preliminary Projections of 2011-2012 PM-10 Emissions

n Timing Issues

- | Measures need to be in place by January 1, 2012 to take numeric credit for all of 2012
- | When will ADEQ submit documentation of the 2009 Exceptional Events to EPA? If exceptional events occur in 2011, how quickly can ADEQ submit this documentation to EPA?
- | How soon after documentation is received can EPA make a decision on the exceptional events?
- | Can the quality assurance of 2011 monitoring data be expedited by Maricopa County?
 - n Due to EPA by May 1, 2012



Preliminary Projections of 2011-2012 PM-10 Emissions

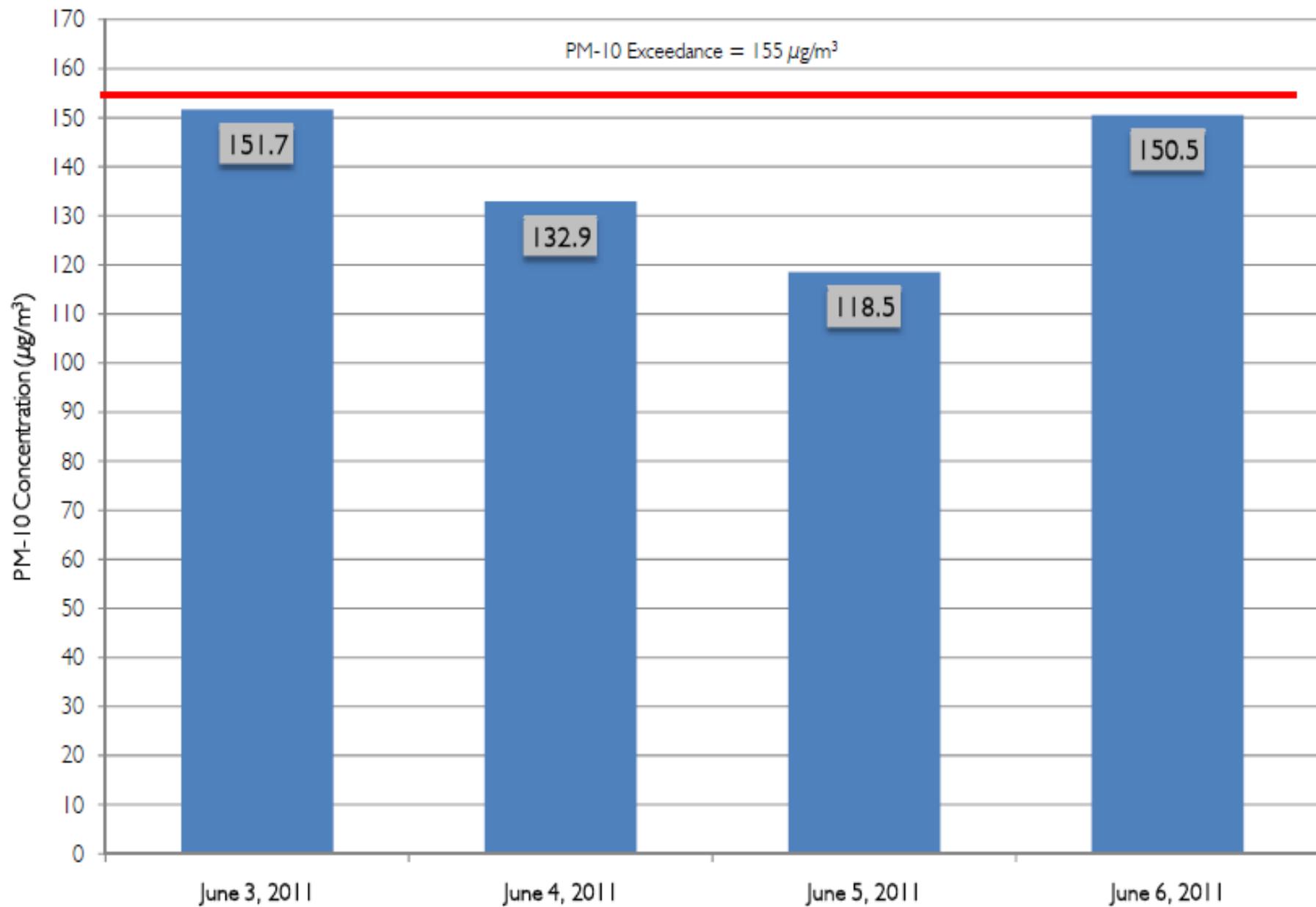
- n If the region is “clean” in 2011
 - | 5% reduction in emissions, contingency measures, and modeling could be suspended as long as the area remains in attainment under the EPA Clean Data Policy
 - | Submit plan with revised 2008 emissions inventory and legislatively-adopted measures
 - § HB 2208 + agricultural measures



Comments on Draft EPA High Winds Guidance Document

- § EPA should not view the existence of recurring high wind event exceedances as justification to require ever-increasing controls on sources
- § EPA should not establish a quota on the number of high wind event exceedances (Proposed: If more than one per year on a 3-year average, a detailed control analysis is required)
- § The proposed High Wind Action Plan should establish the control measures needed by the State in advance of future events so that recurring events do not penalize the State
- § EPA should not be biased against exceedances that occur at only one monitor in a region
- § The 25 mph wind speed threshold set by EPA does not reflect the multiple and unique dynamics that control the production of dust in Maricopa County and other jurisdictions
- § EPA should not presume that exceedances recorded when wind speeds are under 25 mph are only caused by anthropogenic activity
- § EPA should issue a final decision on exceptional event submittals in substantially less time than the proposed 18 months

24-Hour Average PM-10 Concentration



A rectangular logo with a blue and white background featuring a stylized sun or cloud pattern. The text "ENVIRONMENTAL PROGRAMS" is written in white, uppercase letters.

ENVIRONMENTAL
PROGRAMS

For more information

Contact:
Lindy Bauer
(602) 254-6300

lbauer@azmag.gov

