

Preliminary Projections of 2011-2012 PM-10 Emissions

Air Quality TAC Meeting

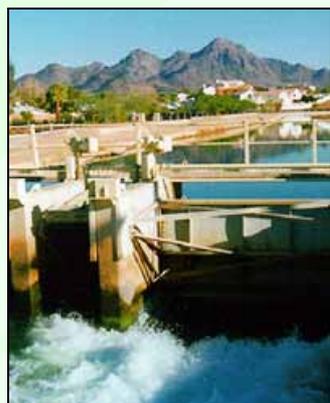
May 24, 2011





Preliminary Projections of 2011-2012 PM-10 Emissions

- n Based on the revised 2008 Periodic Emissions Inventory published by MCAQD in March 2011
 - 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



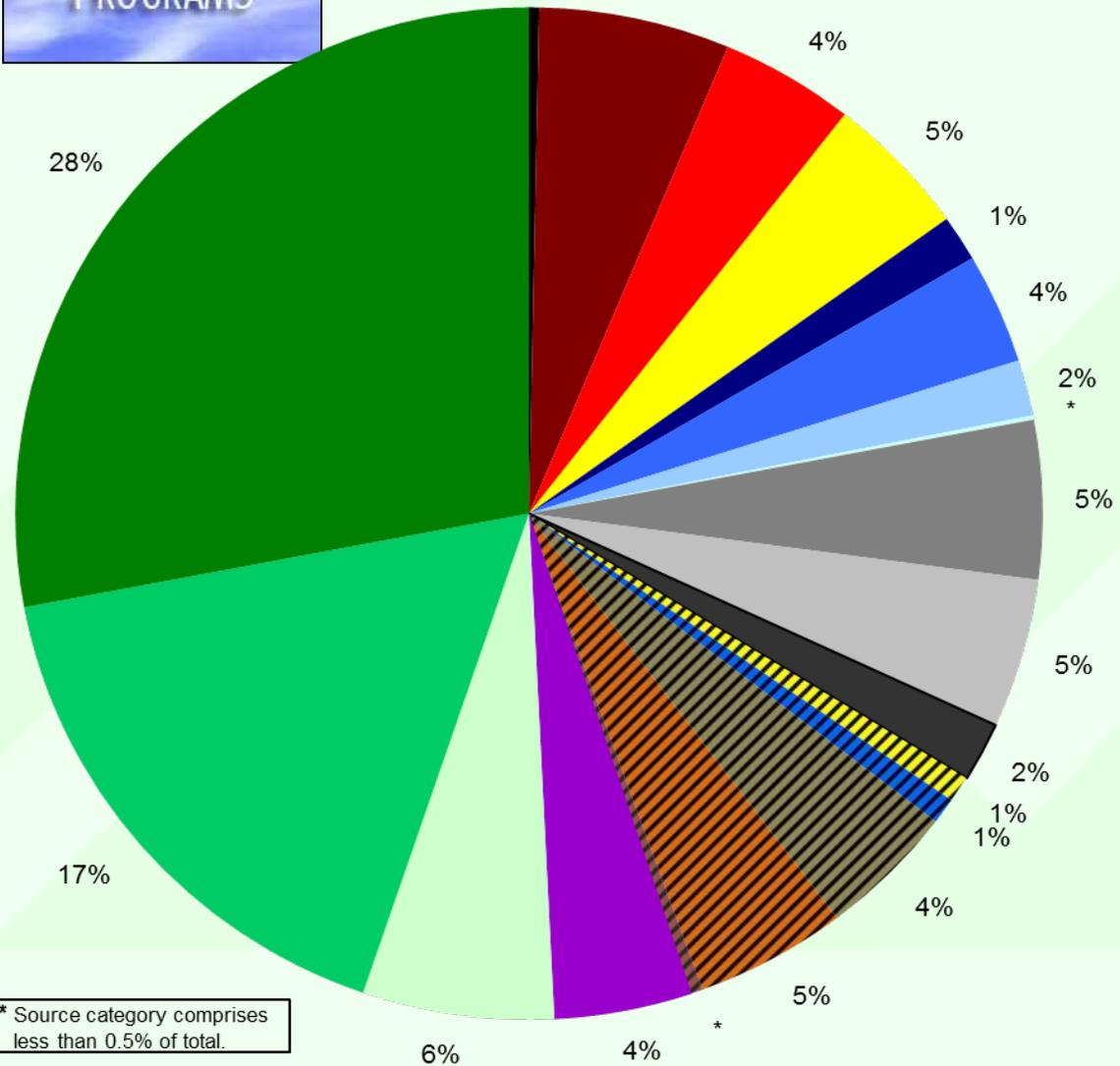
Employment

	<u>Population</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)



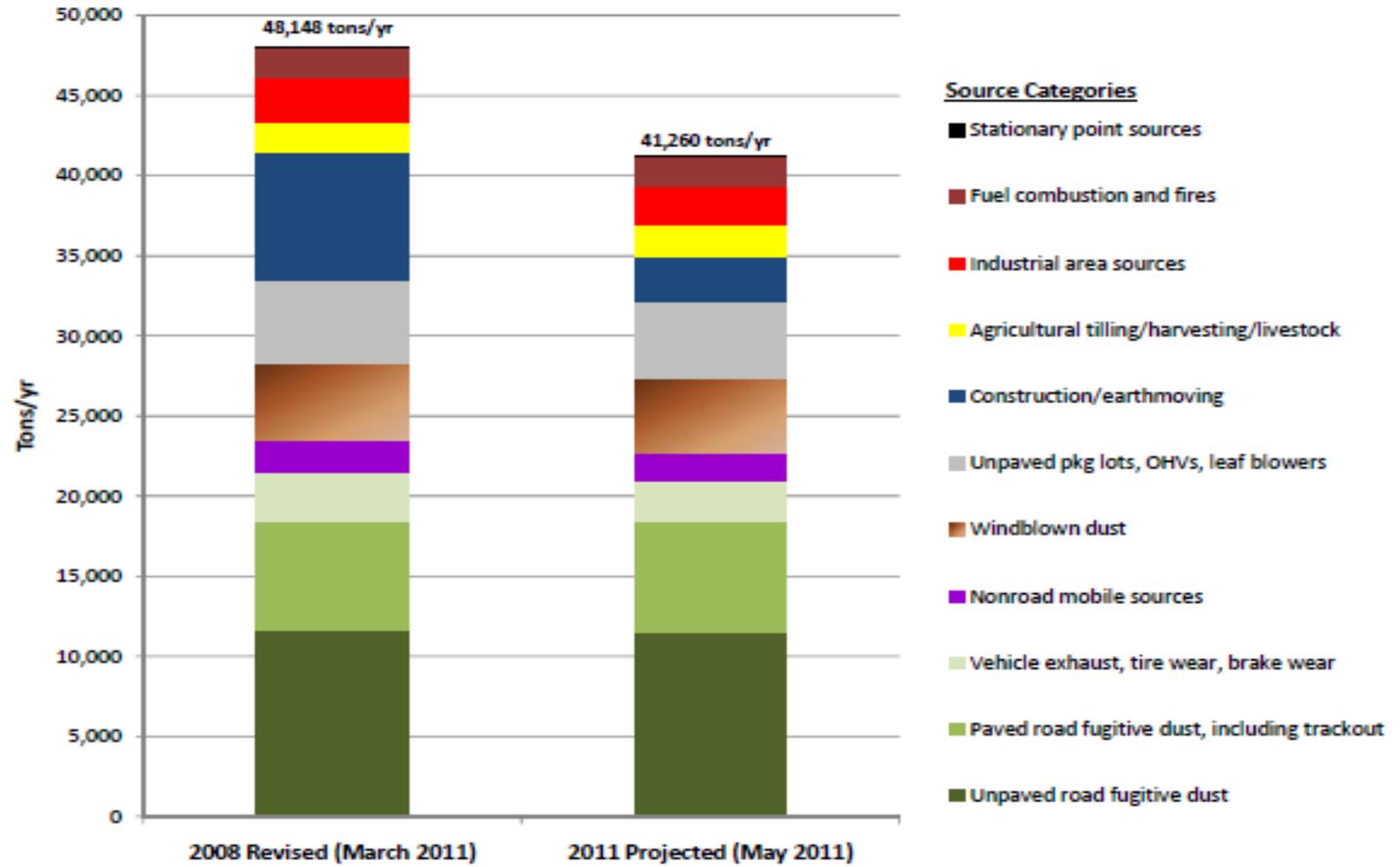
PM₁₀ NAA Total = 41,260 tons/year



Source Categories	%
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%)

* Source category comprises less than 0.5% of total.

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





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- n **Total PM-10 Emissions**
 - 2008 – 48,148 tons
 - 2011 – 41,260 tons
 - 2012 – 40,800 tons
- n **5% reduction based on 2011 emissions**
 - $5 \times 41,260 = 2,063$ 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

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n **Issues**

- l Additional reduction of 2,063 tons is needed to meet Clean Air Act requirement for contingency measures
 - n One year of reasonable further progress (RFP)
- l Credit for all measures quantified in the 2007 Five Percent Plan are included in 2011 base emissions
 - n Exception – Credit for Measures 14,15,17 that reduce trackout emissions has been removed
 - l EPA has indicated that credit may be disallowed due to lack of supporting empirical data
 - n EPA is reviewing the preliminary projections and may disallow credit for other control measures
 - l Would increase the 5% reduction target



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n **Timing Issues**

- l Measures need to be in place by January 1, 2012 to take numeric credit for all of 2012
- l 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?
- l How soon after documentation is received can EPA make a decision on the exceptional events?
- l Can the quality assurance of 2011 monitoring data be expedited by Maricopa County?
 - n Due to EPA by May 1, 2012



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- If the region is “clean” in 2011
 - No 5% reduction, contingency measures, or modeling required for 2012
 - Submit Plan with revised 2008 emissions inventory and legislatively-adopted measures
 - HB 2208 + agricultural measures

A blue rectangular box with a white border containing the text "ENVIRONMENTAL PROGRAMS" in white, uppercase, sans-serif font. The background of the box is a light blue sky with white clouds.

ENVIRONMENTAL
PROGRAMS

For more information

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