



Review of EPA Final Revision to the National Ambient Air Quality Standards for Particulate Matter

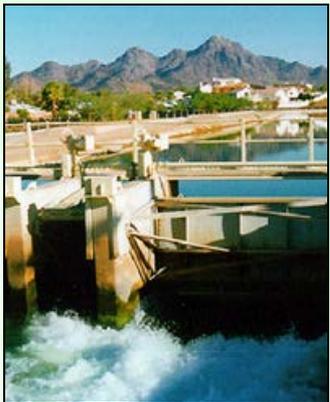
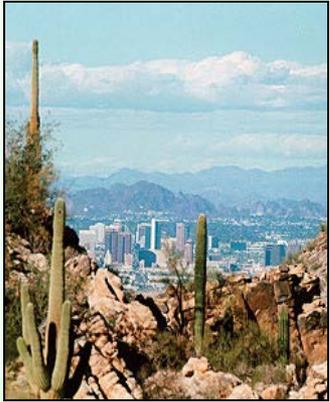
MAG Air Quality Technical Advisory Committee

January 24, 2013

ENVIRONMENTAL
PROGRAMS

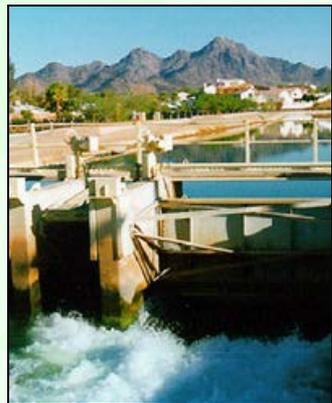
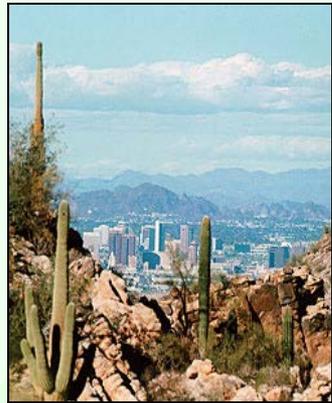
Final Revisions to the Particulate Matter National Ambient Air Quality Standards

- **Final revision of the National Ambient Air Quality Standards for Particulate Matter published in the Federal Register on January 15, 2013**
 - Revised annual PM-2.5 standard from 15.0 $\mu\text{g}/\text{m}^3$ to 12.0 $\mu\text{g}/\text{m}^3$
 - Retained 24-hour PM-2.5 standard at 35 $\mu\text{g}/\text{m}^3$
 - Retained 24-hour PM-10 standard at 150 $\mu\text{g}/\text{m}^3$
 - Retained secondary standards for both PM-10 and PM-2.5
 - Requires one near-road PM-2.5 monitor in each urban area (CBSA) with a population of one million or more, phased in between 2015-2017
 - Updated the Air Quality Index (AQI) and grandfathers certain preconstruction permits





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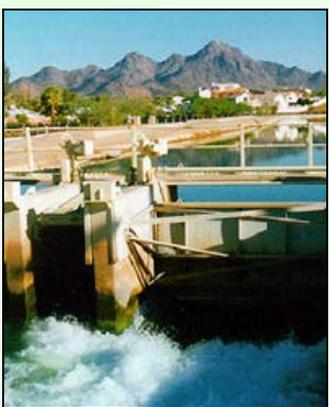
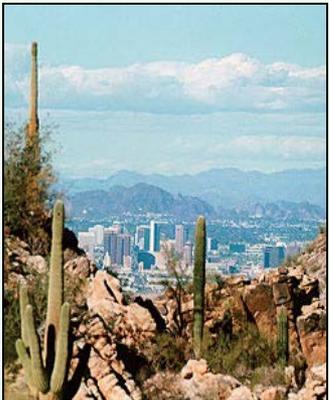


Milestone	Date
EPA issues Final Rule - includes PSD rule revisions/guidance	Dec 14, 2012
EPA issues Designations Guidance	Feb 2013
PM NAAQS effective date	Mar 2013
Exceptional Event Flagging Deadline (2010-12 data)	Jul 2013
Exceptional Event Documentation Submittal (2010-12 data)	Dec 2013
State Designation Recommendations to EPA EPA issues Proposed Implementation Rule	Dec 2013
EPA issues Infrastructure SIP guidance	Early 2014
Exceptional Event Flagging Deadline (2013 data)	Jul 2014
Exceptional Event Documentation Submittal (2013 data)	Aug 2014
EPA sends 120-day letters for designations	Aug 2014
EPA issues Final Area Designations EPA issues Final Implementation Rule	Dec 2014 / Effective Early 2015*
State Infrastructure SIPs due	Early 2016
Attainment Demonstration SIPs Due	2018
Attainment Dates	2020-2025 (depends on severity of problem)

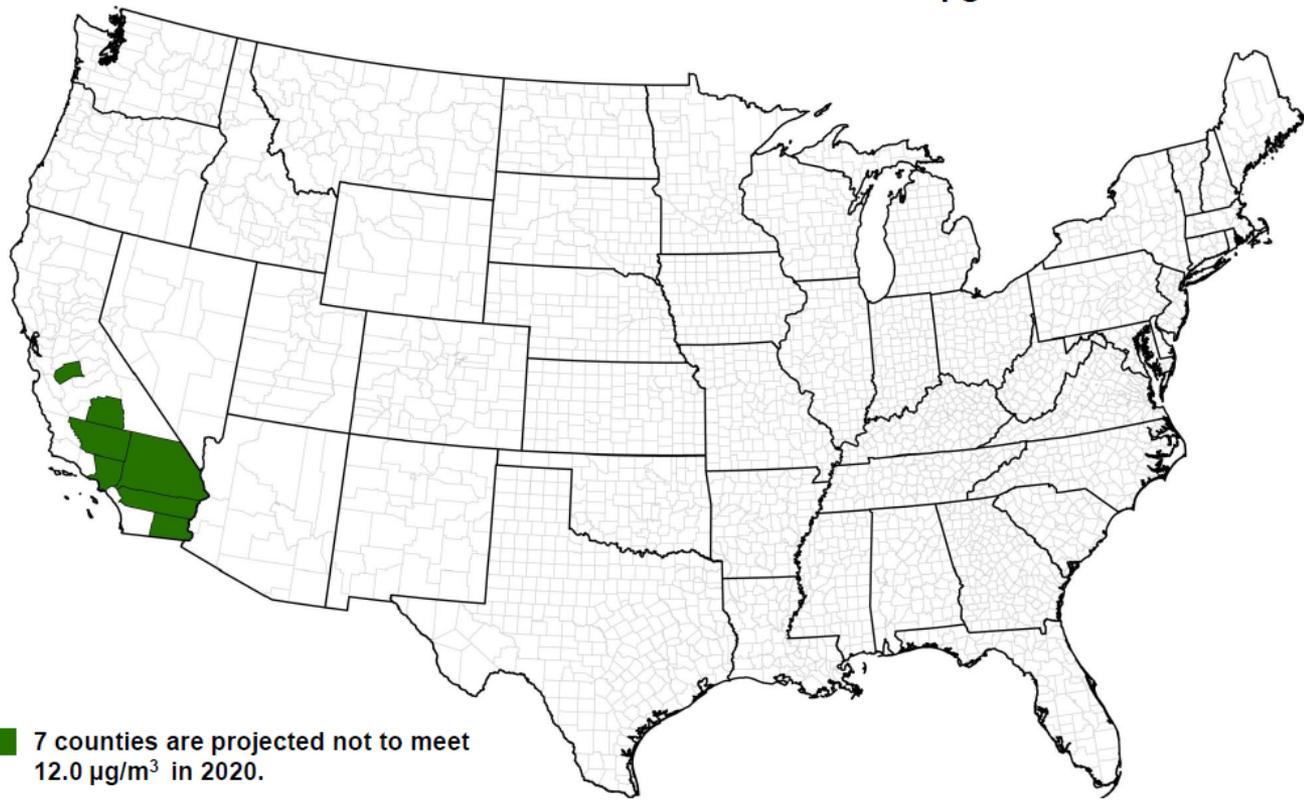
*Three years of data from sites in the proposed near-road monitoring network would not be certified until 2018, and therefore would not be available for the initial designations process.



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EPA Projections Show 99% of U.S. Counties with Monitors Would Meet the Annual Fine Particle Health Standard of 12 $\mu\text{g}/\text{m}^3$ in 2020



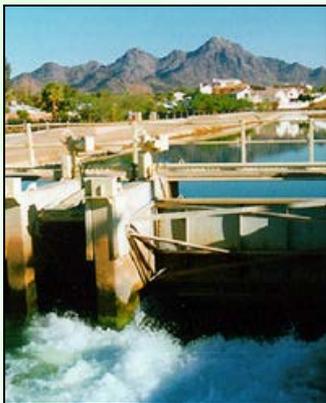
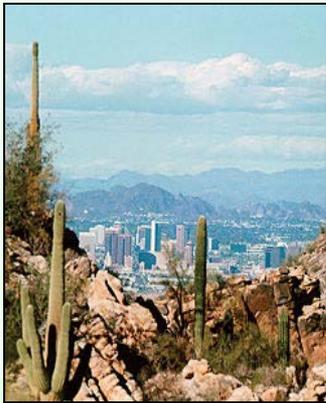
7 counties are projected not to meet 12.0 $\mu\text{g}/\text{m}^3$ in 2020.

All of these are already under requirements to reduce PM_{2.5}.

Source: PM NAAQS RIA
For more information: www.epa.gov/pm



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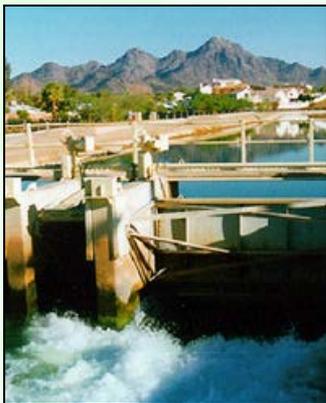
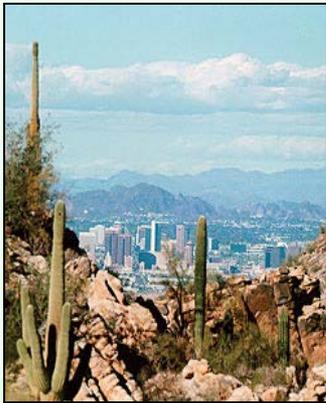
- **Form of the annual PM-2.5 standard is a three year average of the annual value from each year**
 - Current (2010-2012) annual average PM-2.5 in Maricopa County: *
 - South Phoenix monitor: 9.3 $\mu\text{g}/\text{m}^3$
 - West Phoenix monitor: 10.9 $\mu\text{g}/\text{m}^3$
- **Form of the 24-hour PM-2.5 standard is a three year average of the 98th Percentile value from each year**
 - Current (2010-2012) 24-hour average PM-2.5 in Maricopa County: *
 - South Phoenix monitor: 24.2 $\mu\text{g}/\text{m}^3$
 - West Phoenix monitor: 28.5 $\mu\text{g}/\text{m}^3$

**Preliminary data provided by Maricopa County Air Quality Department. Includes the use of filter (2010) and continuous (2011-2012) monitoring data*



Final Revisions to the Particulate Matter National Ambient Air Quality Standards

- **2013 will be a critical year for achieving attainment with the revised annual PM-2.5 standard of 12.0 $\mu\text{g}/\text{m}^3$ in Maricopa County for the 3-year period of 2011-2013**
 - Durango Monitor:
 - 2011 annual average PM-2.5 value: 12.3 $\mu\text{g}/\text{m}^3$
 - 2012 annual average PM-2.5 value (preliminary): 11.6 $\mu\text{g}/\text{m}^3$
 - 2013 annual average PM-2.5 value will need to be 12.1 $\mu\text{g}/\text{m}^3$ or less to meet revised standard
 - West Phoenix Monitor:
 - 2011 annual average PM-2.5 value: 11.5 $\mu\text{g}/\text{m}^3$
 - 2012 annual average PM-2.5 value (preliminary): 12.9 $\mu\text{g}/\text{m}^3$
 - 2013 annual average PM-2.5 value will need to be 11.6 $\mu\text{g}/\text{m}^3$ or less to meet revised standard



Data provided by the Maricopa County Air Quality Department



For More Information

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www.azmag.gov

