



**Air Quality Update  
Valley Metro  
April 25, 2018**

Timothy Franquist, Air Quality Director



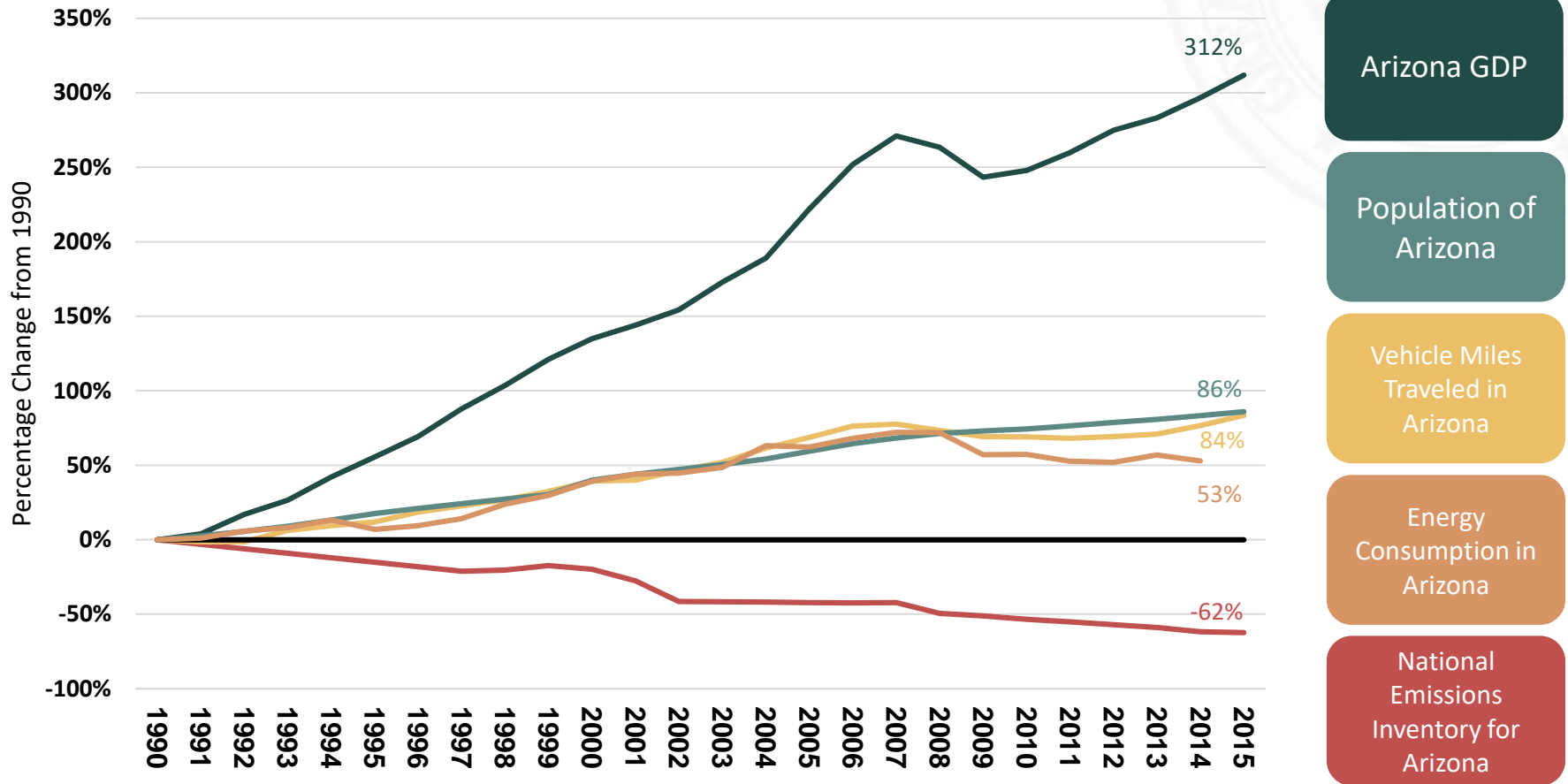
Air Quality Division

# MISSION

## Our Mission

To protect and enhance public health and the environment by ensuring that ambient air is healthy to breathe, visibility in national parks and forests is pristine, and air quality does not negatively impact environmental systems. AQD accomplishes that mission by controlling current and future sources of air pollution.

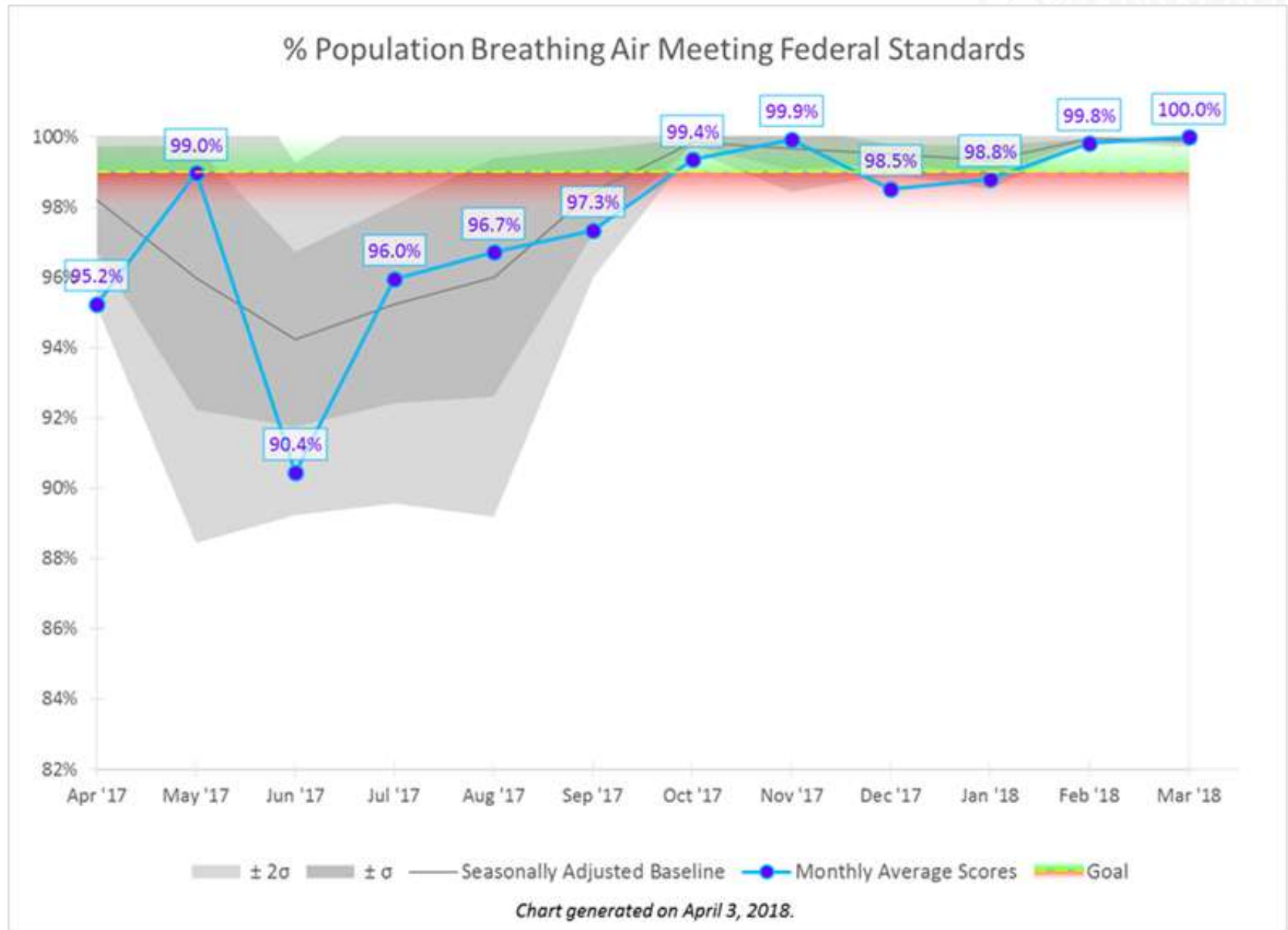
# Arizona Growth Factors & Emission Trends (1990-2015)



Sources

Gross Domestic Product for Arizona: U.S. Bureau of Economic Analysis  
 Vehicle Miles Traveled in Arizona: Arizona Department of Transportation  
 Population of Arizona: U.S. Census Bureau  
 Energy Consumption in Arizona: U.S. Energy Information Administration  
 National Emissions Inventory for Arizona: U.S. Environmental Protection Agency

# Air Quality Metric



**Ozone**  
(NO<sub>x</sub> & VOC)

**Nitrogen  
dioxide**

**Carbon  
monoxide**



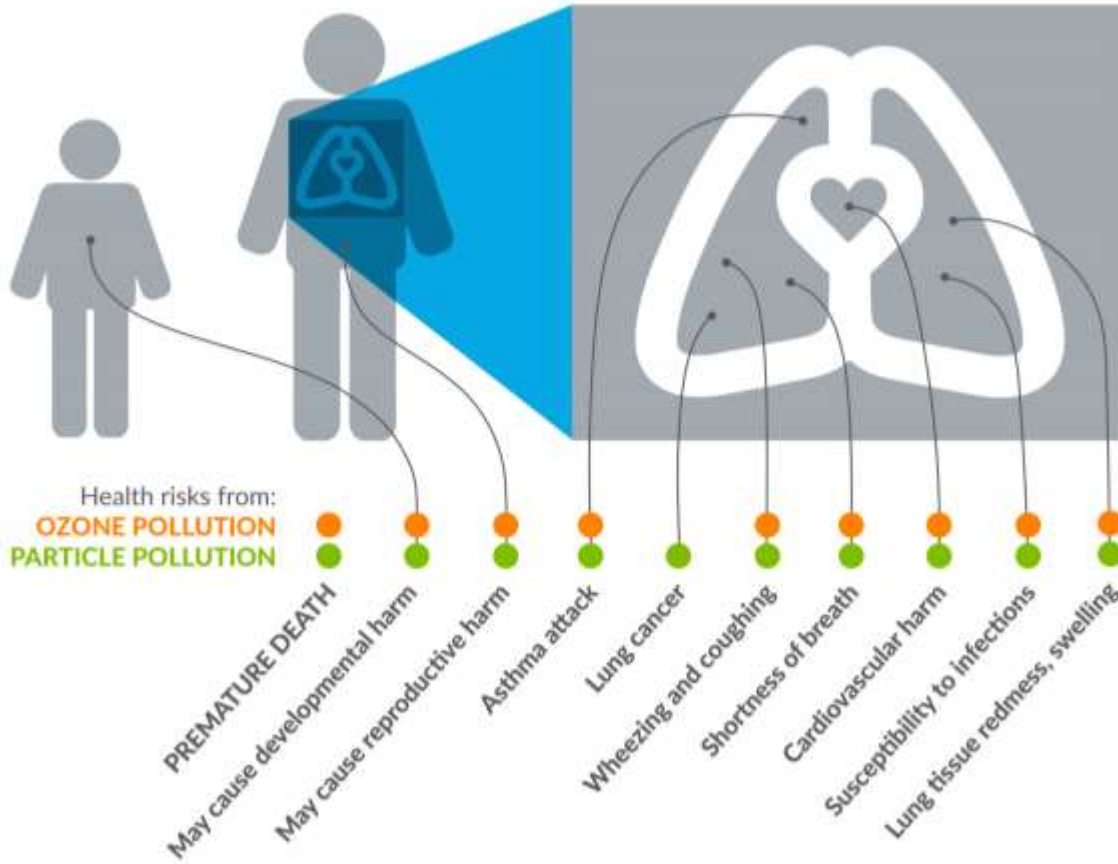
**Sulfur  
dioxide**

**Lead**

**Particulate Matter**  
(PM10 & PM2.5)

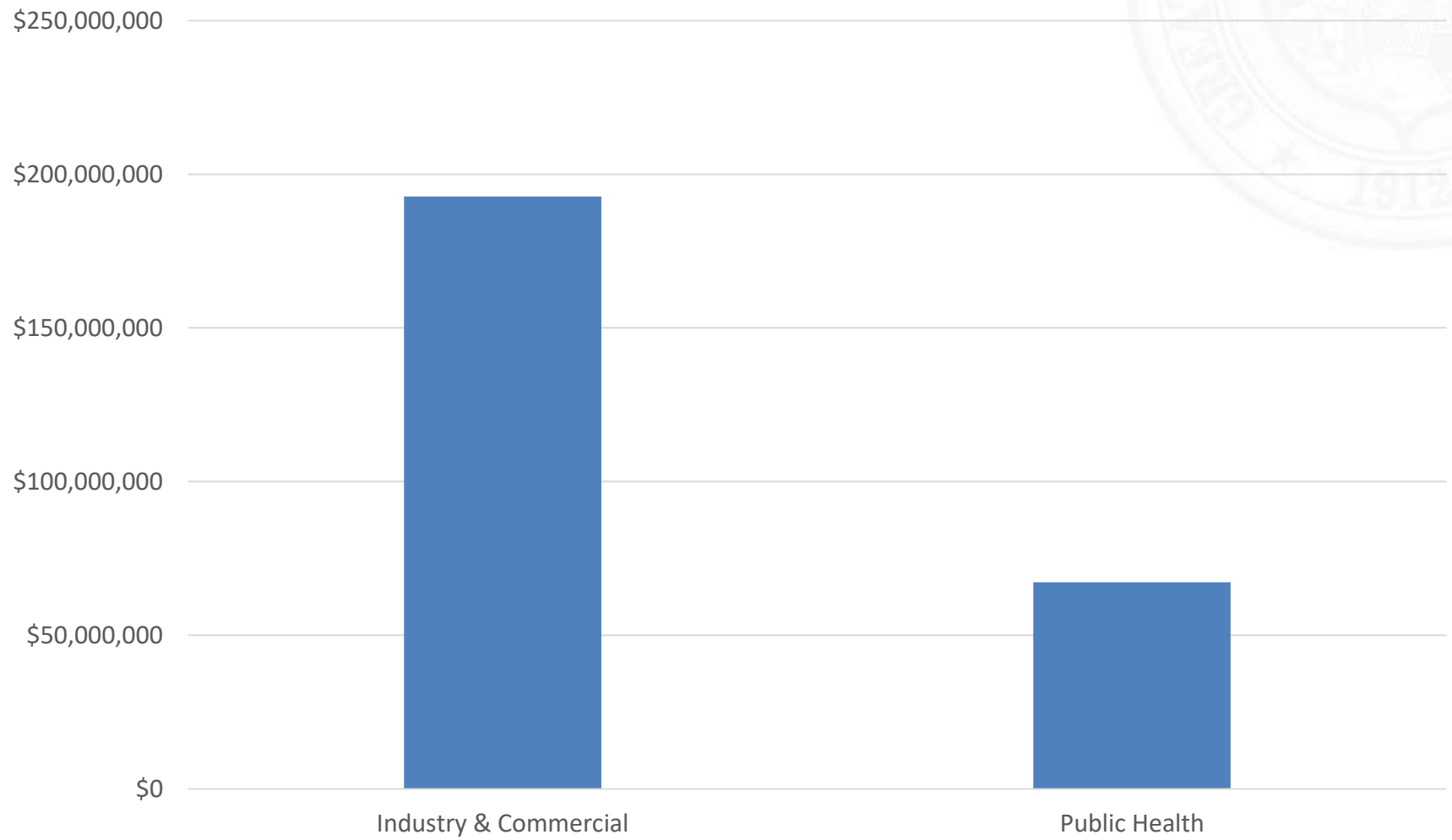


# Health Effects of Ozone and Particulate Matter



# Ozone NAA - Industry & Public Health Costs

## Annual Ozone Nonattainment Costs – Maricopa County

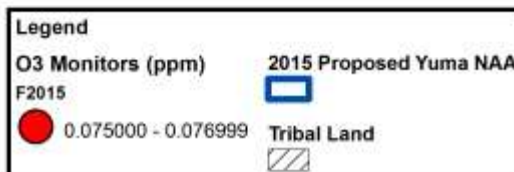
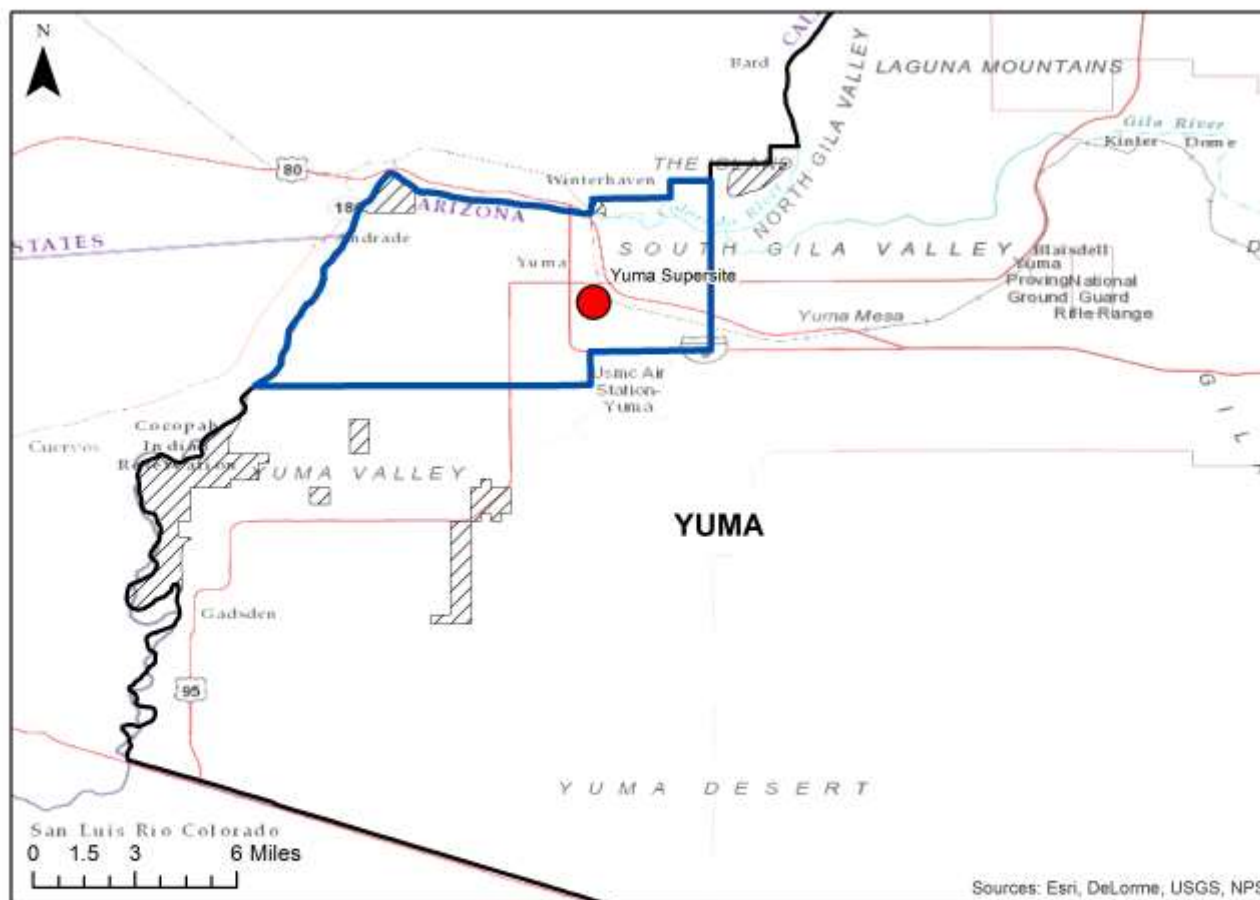


• Sources: [https://www.epa.gov/sites/production/files/2015-10/documents/overview\\_of\\_2015\\_rule.pdf](https://www.epa.gov/sites/production/files/2015-10/documents/overview_of_2015_rule.pdf)  
• [http://www.capcog.org/documents/airquality/reports/2015/Potential\\_Costs\\_of\\_a\\_Nonattainment\\_Designation\\_09-17-15.pdf](http://www.capcog.org/documents/airquality/reports/2015/Potential_Costs_of_a_Nonattainment_Designation_09-17-15.pdf)

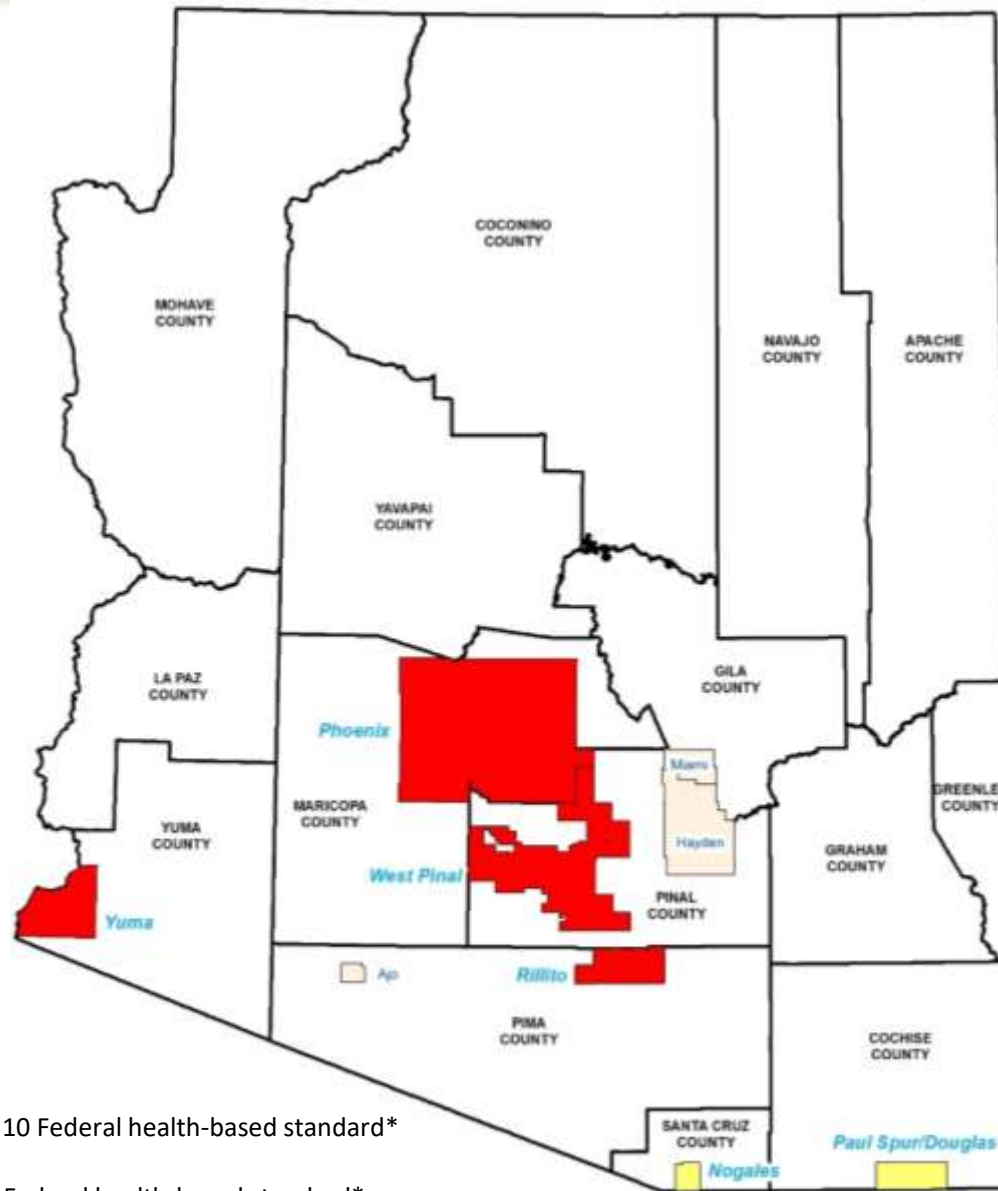





# EPA Proposed Yuma Nonattainment Area



# Preliminary PM10 Exceedance Analysis



 Area currently at or exceeding PM10 Federal health-based standard\*

 Area currently approaching PM10 Federal health-based standard\*

\*May include Exceptional Events



**Business  
Partners**



**Community  
Leaders**



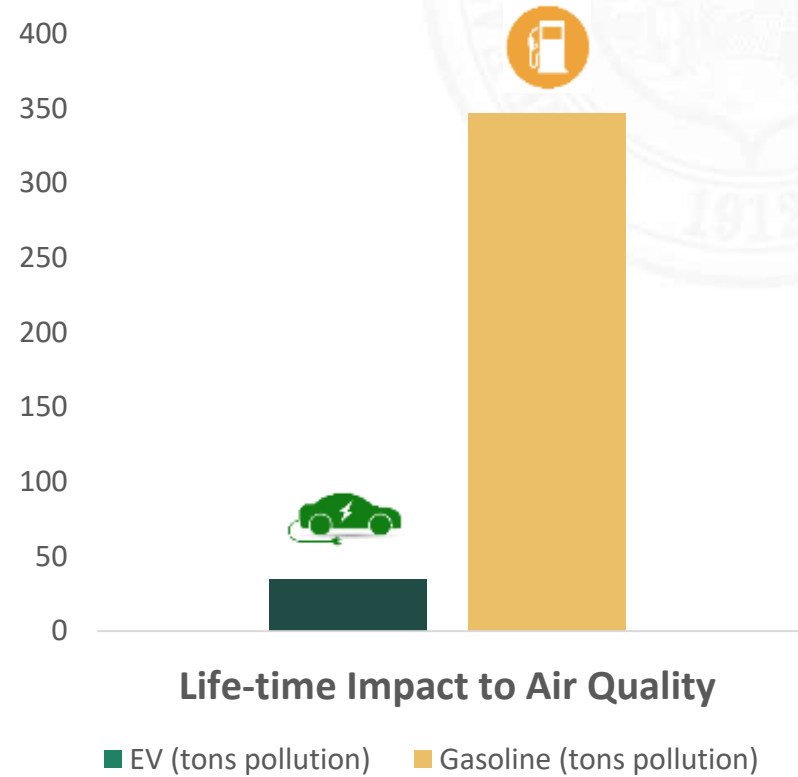
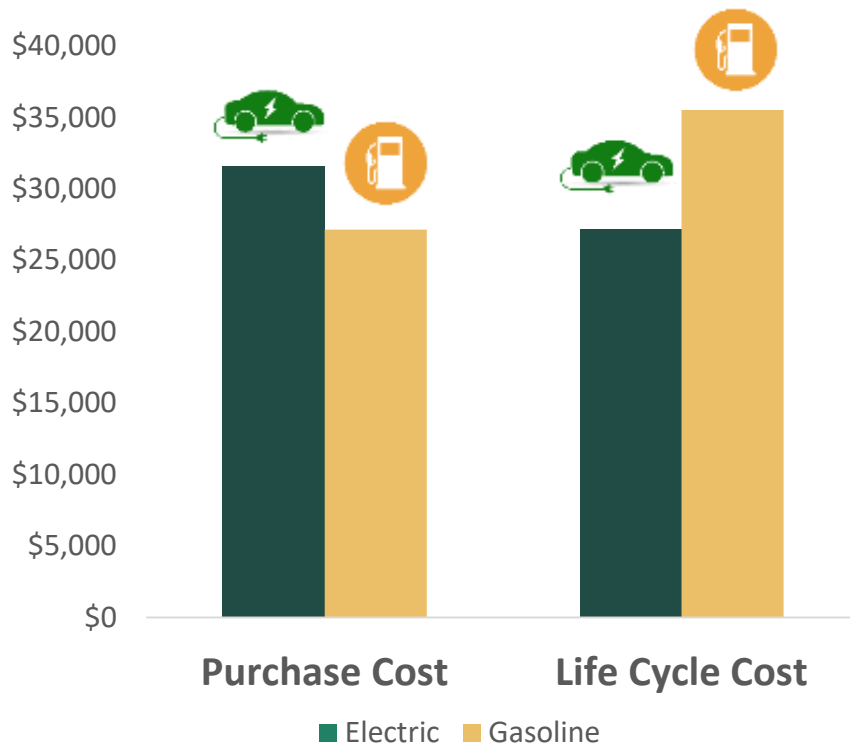
**Air Quality  
Agencies**



**Non-Governmental  
Organizations**

**Community-based Effort & Partnership**

# EV Counter Measures



# What Can We Do to Help Air Quality?





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