

# Region 9 Air Quality Challenges

AAPCA 2017 Fall Business Meeting September 2017

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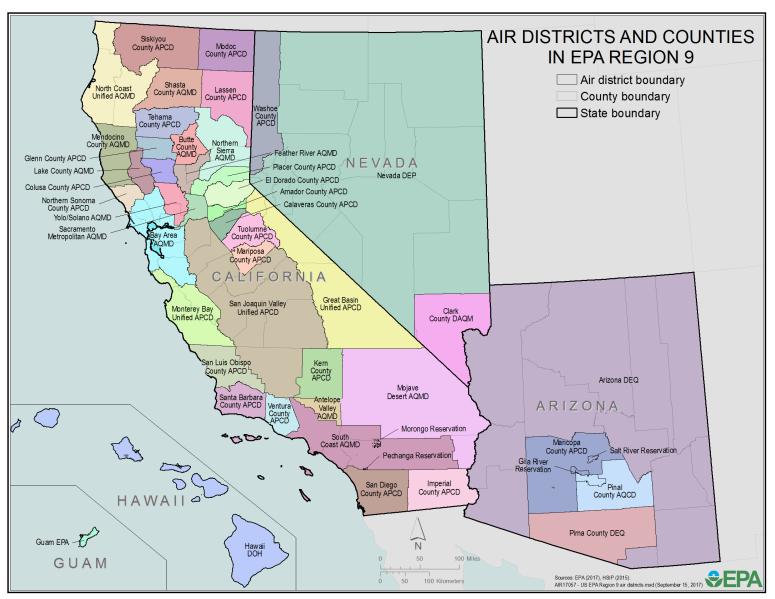






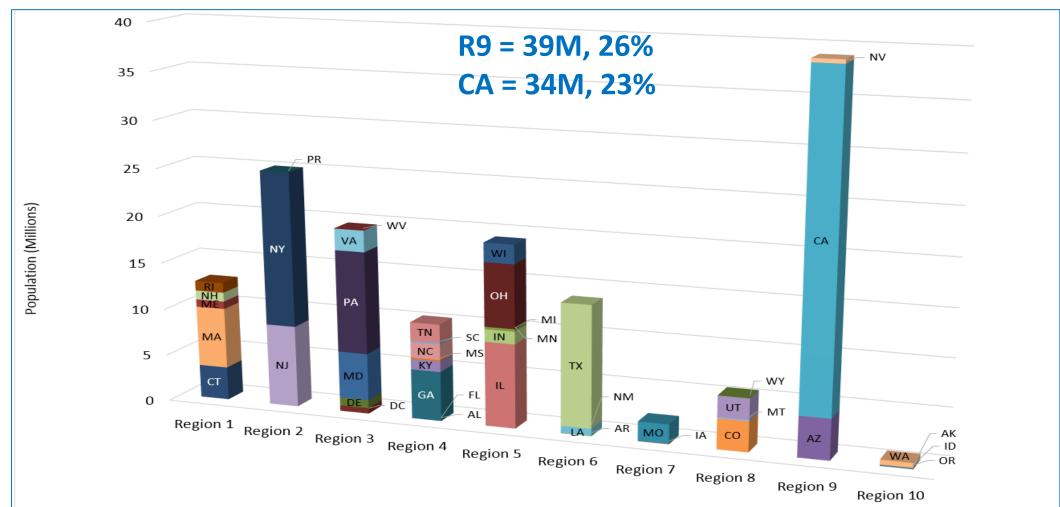


### Region 9 States and Air Districts





#### U.S. Population in Nonattainment Areas

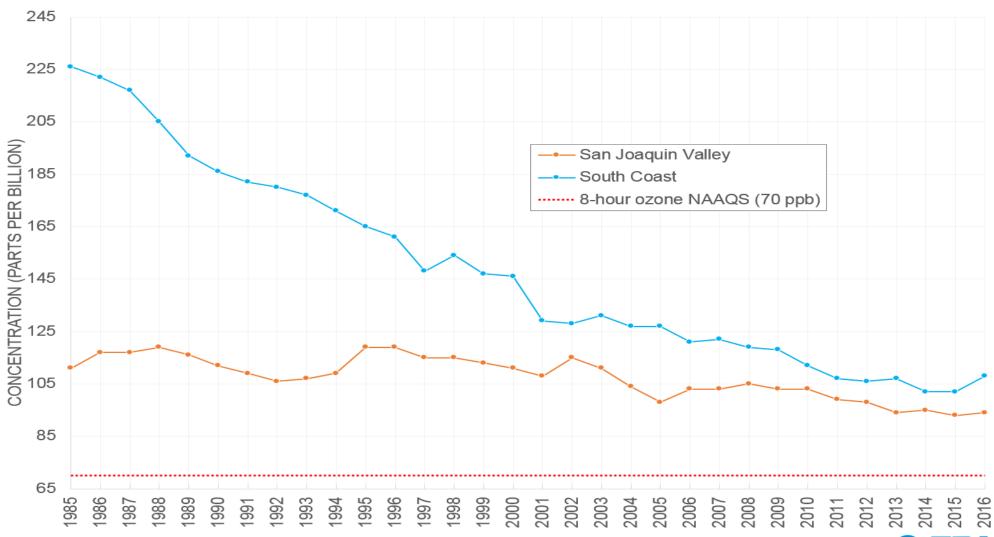


Sources: American Community Survey 2006-2010 File Geodatabase for Block Groups, U.S. EPA Office of Environmental Information (OEI) - Office of Information Analysis and Access (OIAA) (2011), U.S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards (OAQPS) (2015). Columns consist of summaries of populations of 2010 U.S. Census block groups which have centroids inside nonattainment area boundaries. Populations inside revoked 1-hour ozone nonattainment areas and AIR1500047 (May 1, 2015) REGION 9 - AIR populations inside nonattainment areas of former air quality standards are included.





#### 8-hour Ozone Trends in SJV and SC



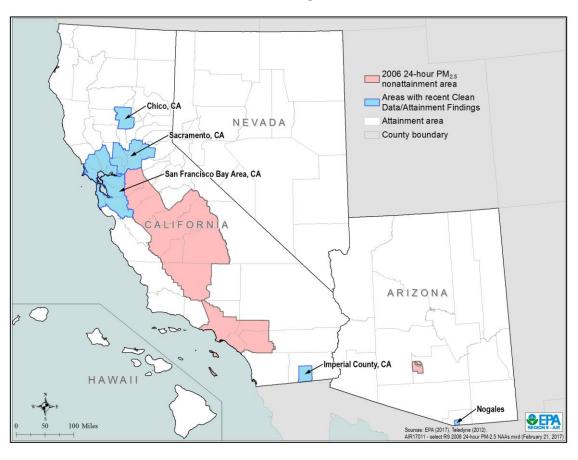
Sources: US EPA's OzoneWatch (March 22, 2017) and Office of Air Quality Planning and Standards (OAQPS) (July 29, 2016). Incomplete and exceptional evant data concurred by EPA excluded from design value calculations. AIR17019 - Preliminary 2016 South Coast and SJV design values.xlsx (April 3, 2017). **2016 data are preliminary.** 



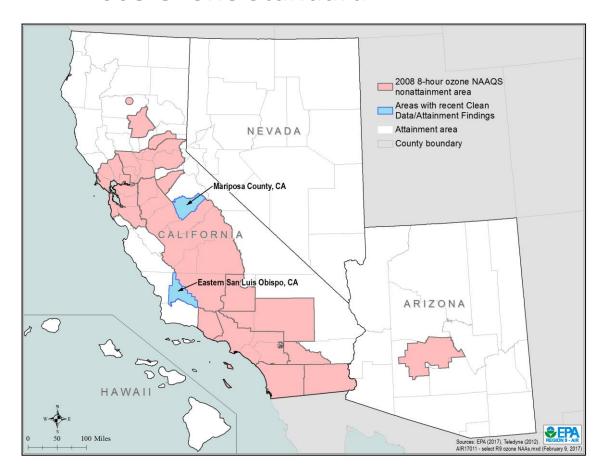


## Clean Data and Attainment Findings

#### 2006 PM<sub>2.5</sub> Standard



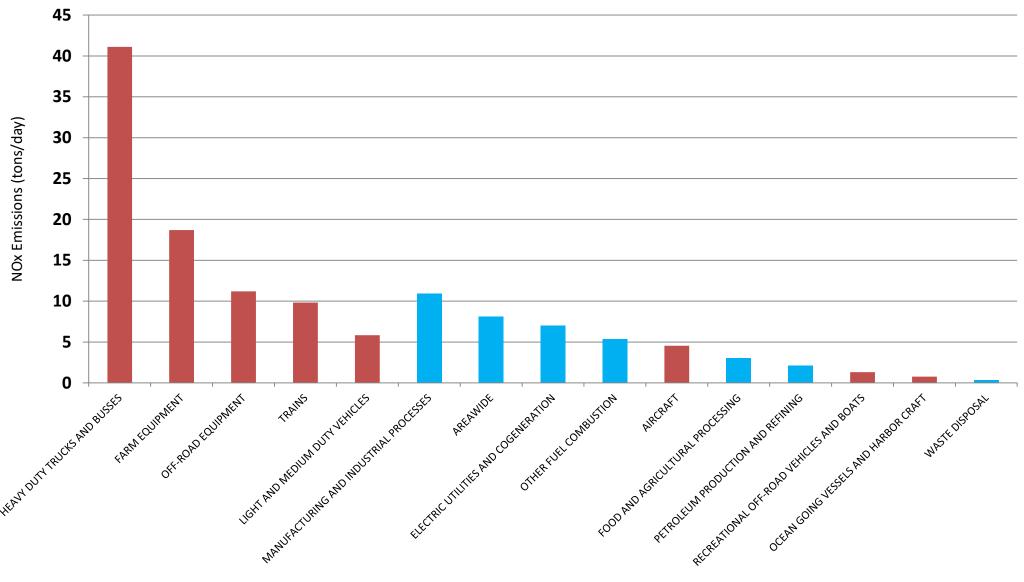
#### **2008 Ozone Standard**





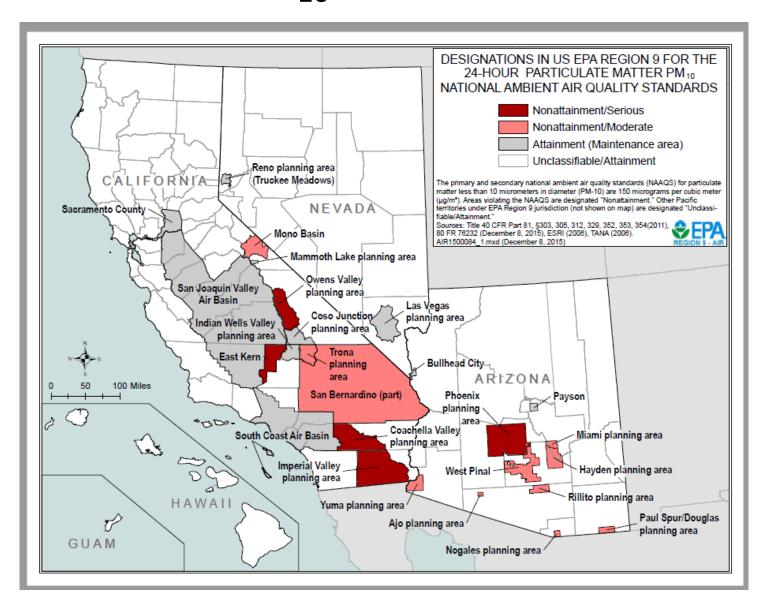
# SJV - Top Ten Sources of NOx Emissions

(2031)



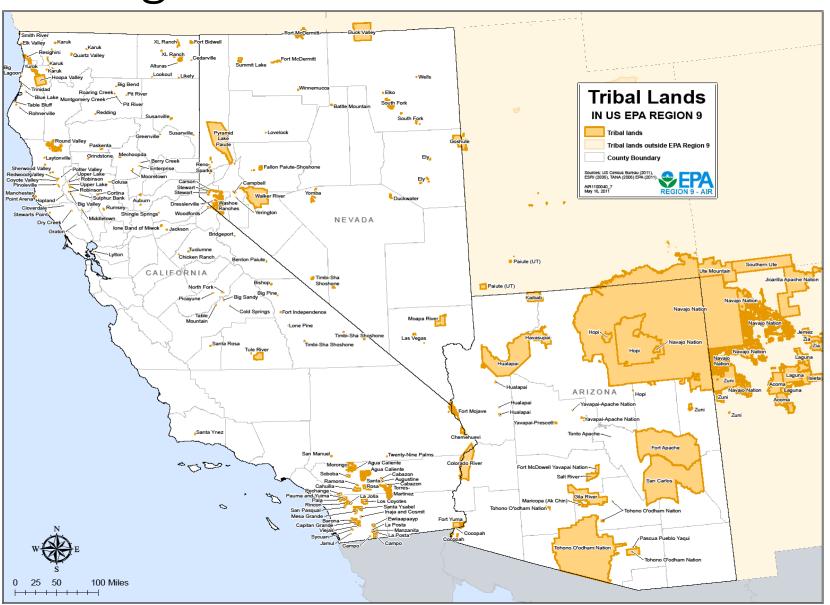


## Region 9 PM<sub>10</sub> Nonattainment Areas





# Region 9 Tribal Lands





# Region 9 Class I Areas (Regional Haze)

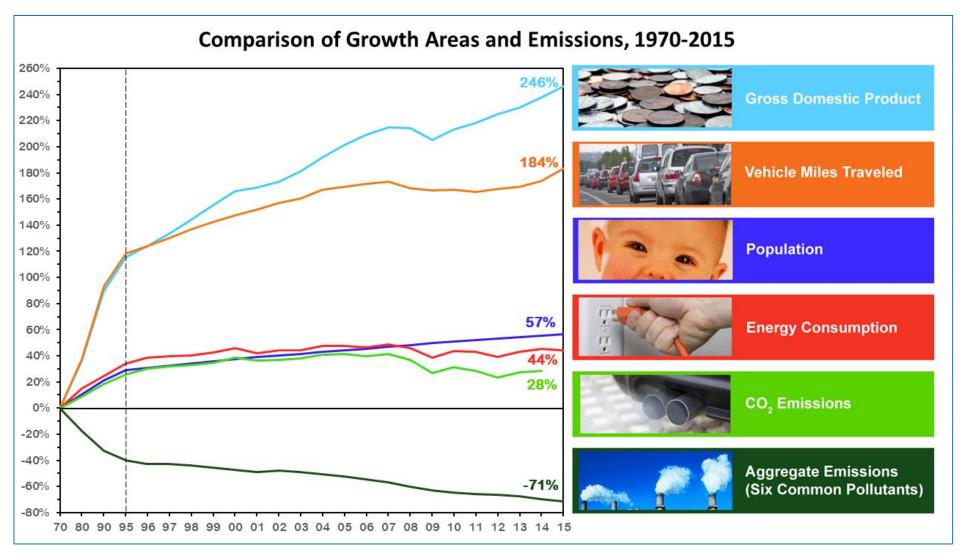




## Backup Slides

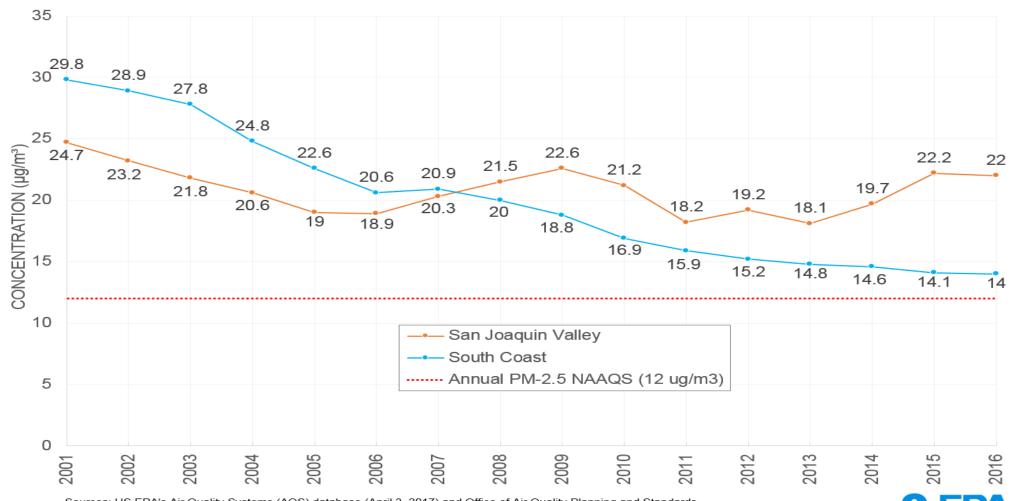


## National Metric on Air Quality





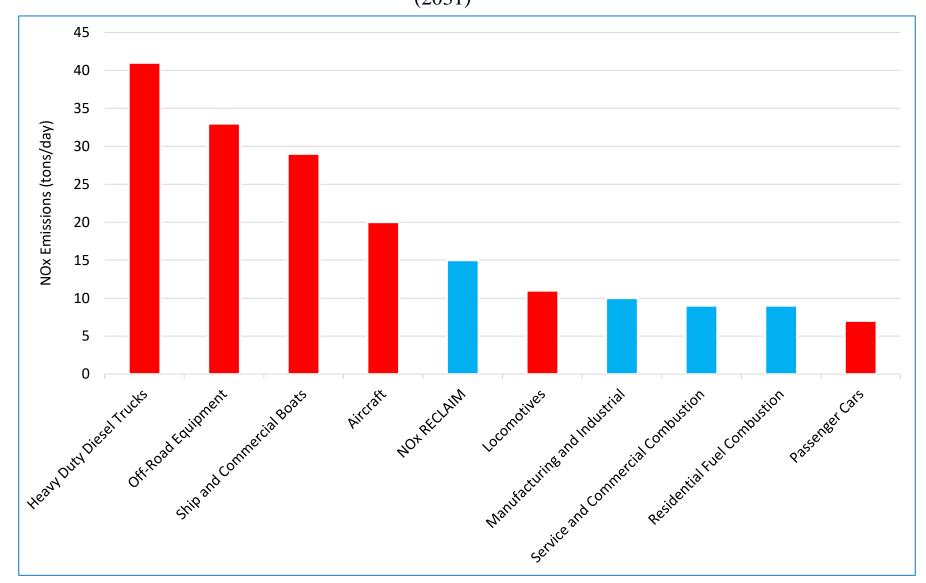
## PM<sub>2.5</sub> Trends in SJV and SC



Sources: US EPA's Air Quality Systems (AQS) database (April 3, 2017) and Office of Air Quality Planning and Standards (OAQPS) (July 29, 2016). Incomplete and exceptional evant data concurred by EPA excluded from design value calculations. AIR17019 - Preliminary 2016 South Coast and SJV design values.xlsx (April 3, 2017). **2016 data are preliminary.** 



# South Coast - Top Ten Sources of NOx Emissions





#### 2023 NOx Emissions Projections – Ozone Plans

