



Region 9 Air Quality Challenges

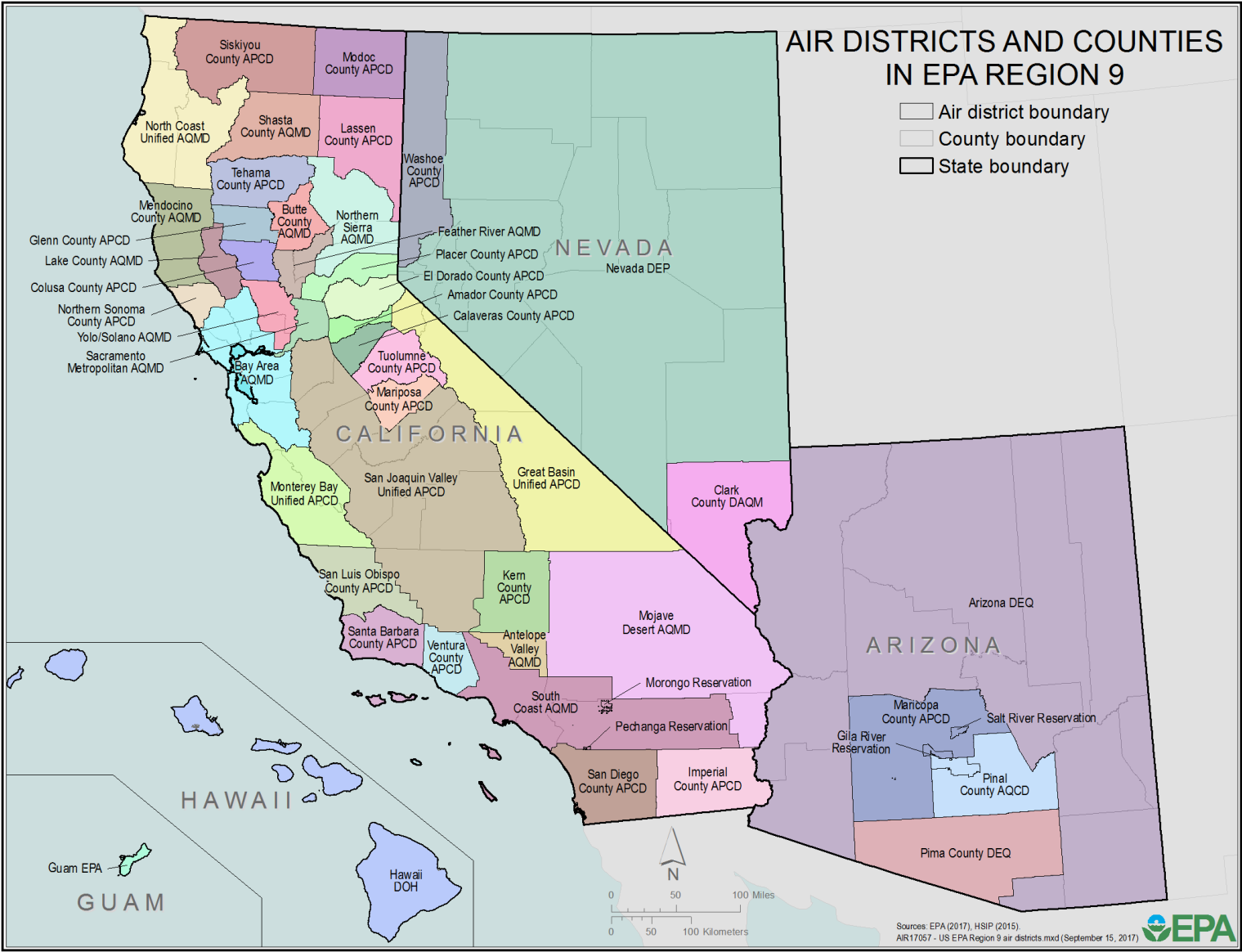
AAPCA 2017 Fall Business Meeting
September 2017

Matthew Lakin, Ph.D.
Acting Deputy Air Director
U.S. EPA Region 9



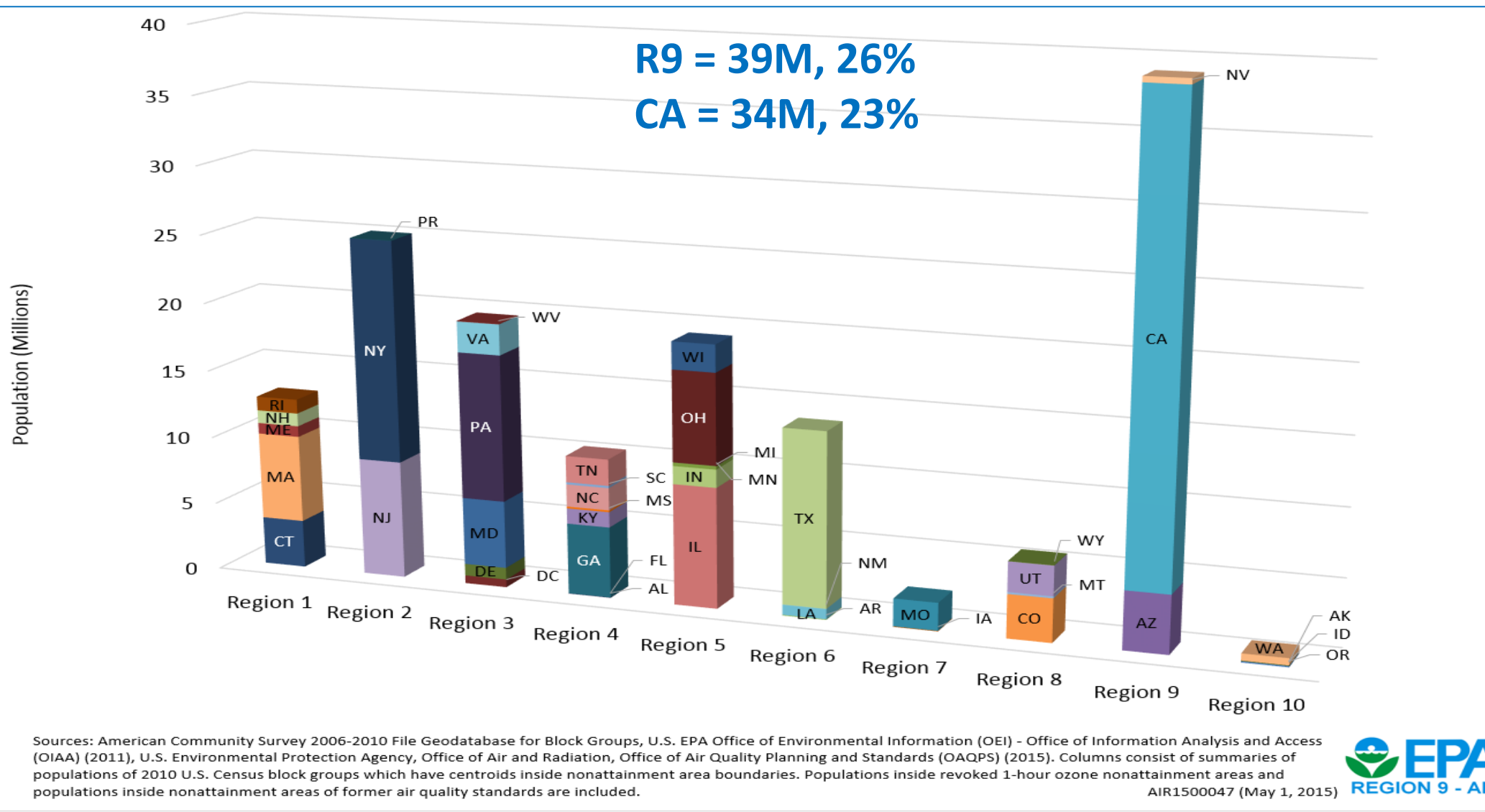


Region 9 States and Air Districts



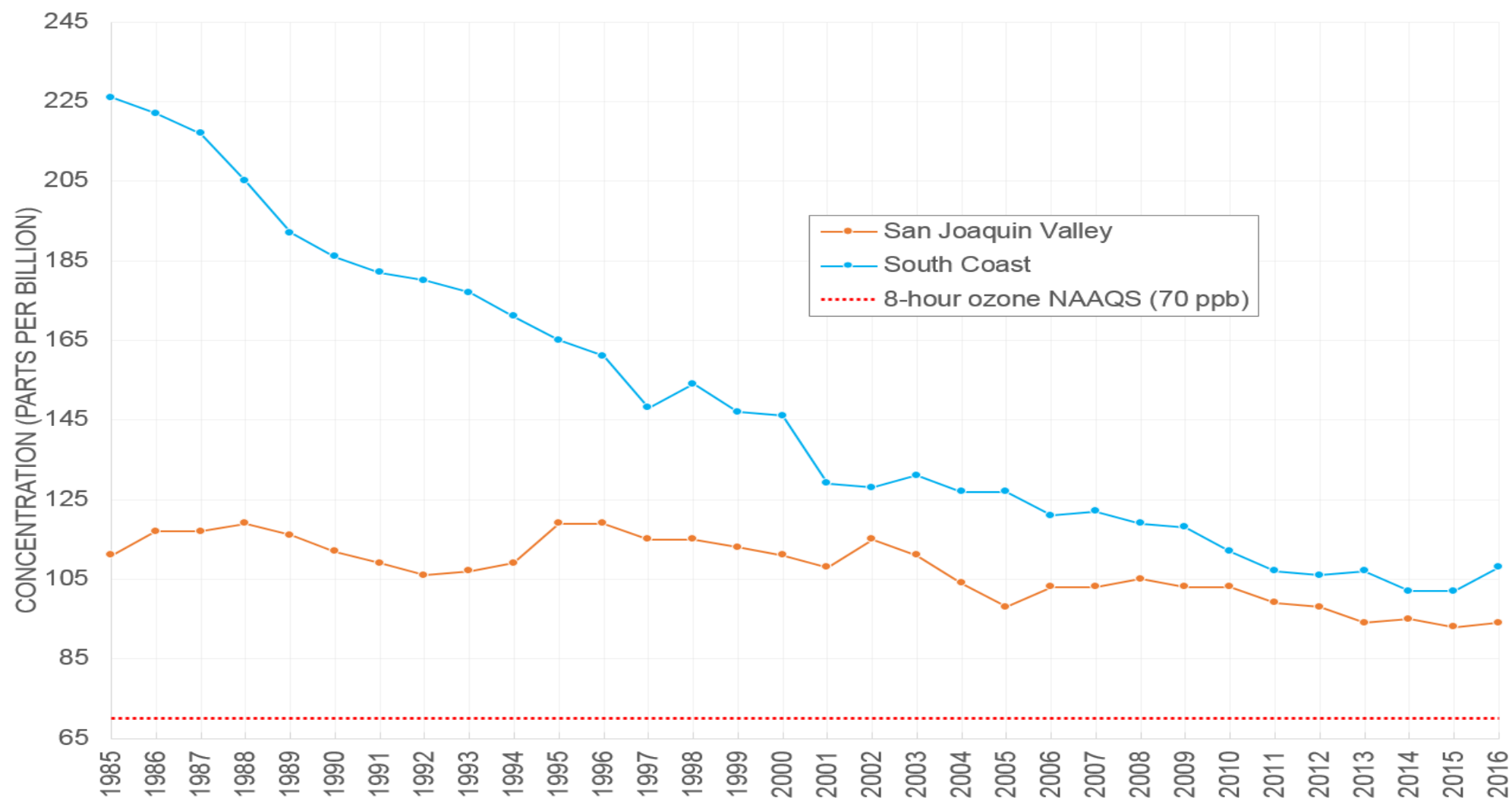


U.S. Population in Nonattainment Areas





8-hour Ozone Trends in SJV and SC

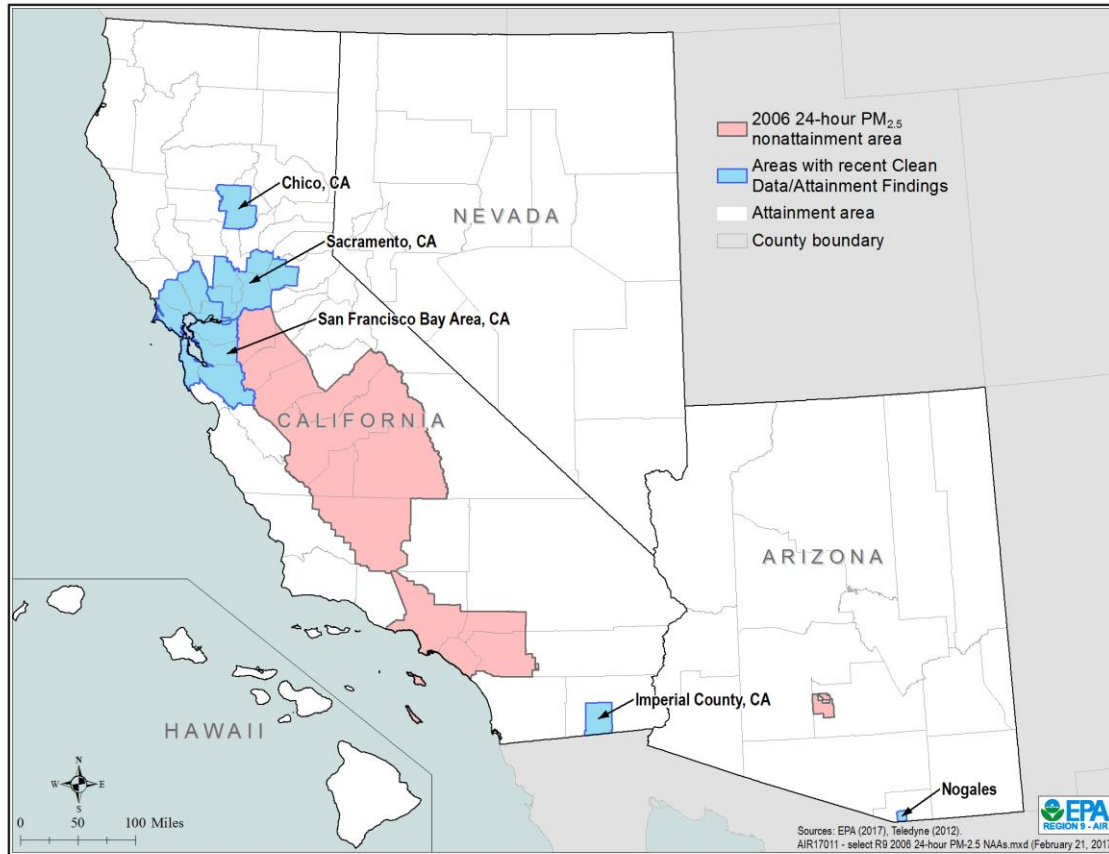


Sources: US EPA's OzoneWatch (March 22, 2017) and Office of Air Quality Planning and Standards (OAQPS) (July 29, 2016). Incomplete and exceptional event data concurred by EPA excluded from design value calculations. AIR17019 - Preliminary 2016 South Coast and SJV design values.xlsx (April 3, 2017). **2016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

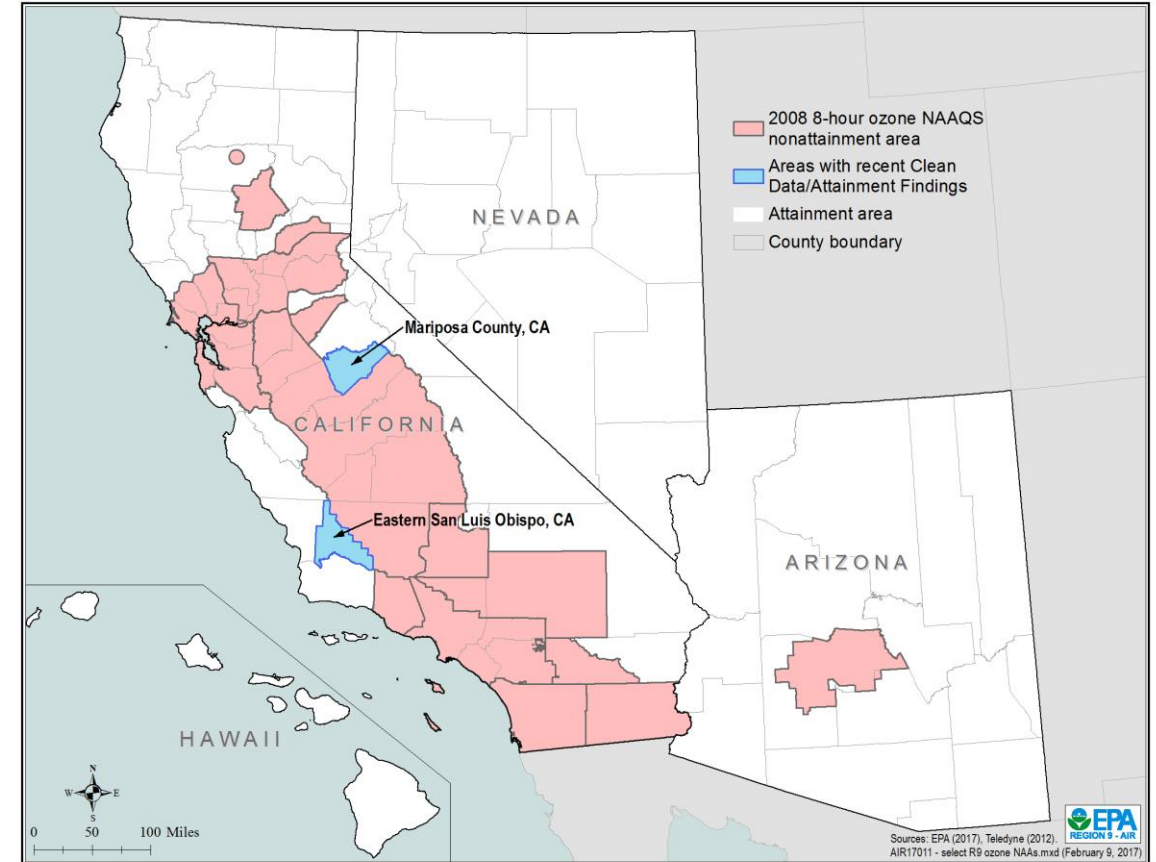


Clean Data and Attainment Findings

2006 PM_{2.5} Standard



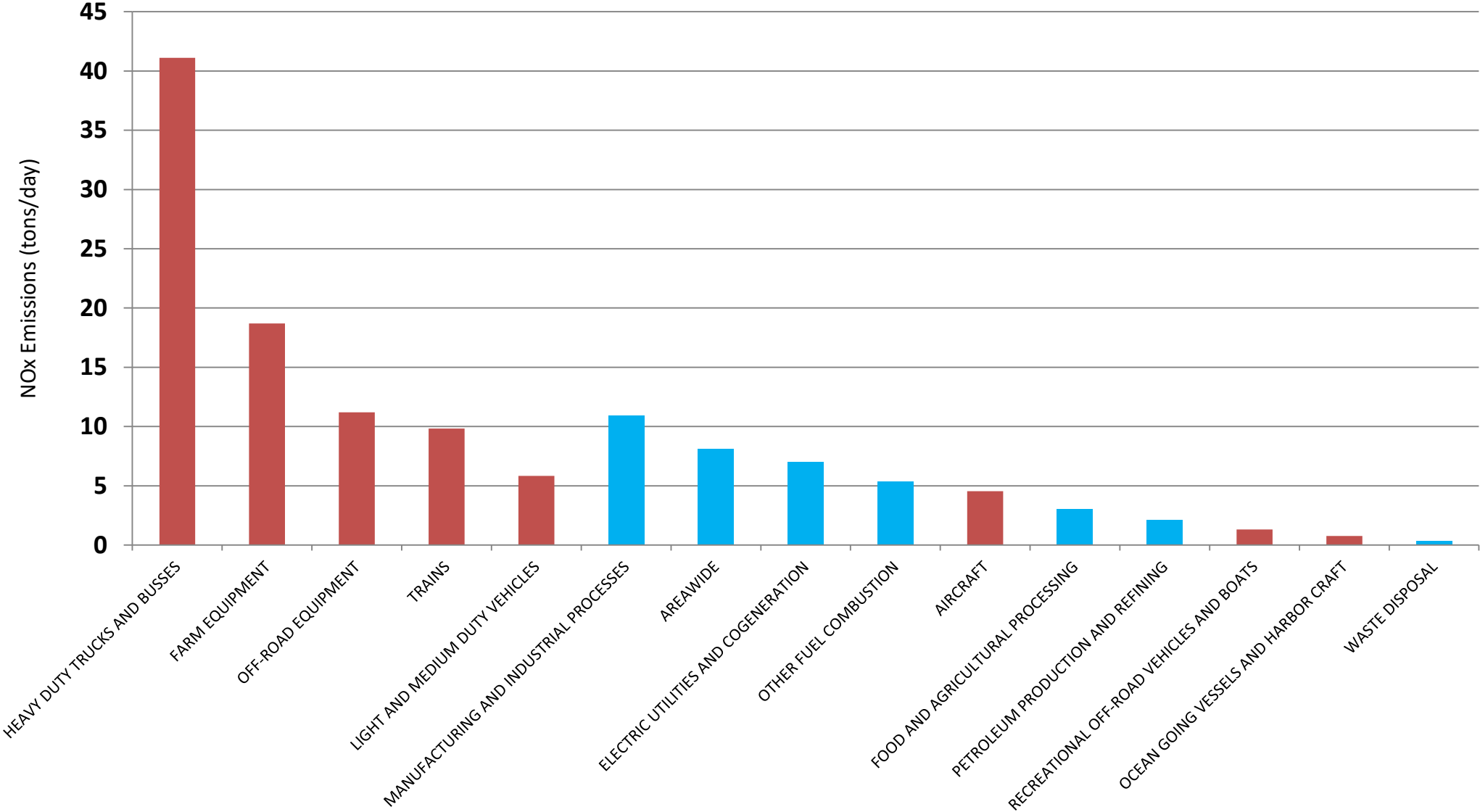
2008 Ozone Standard





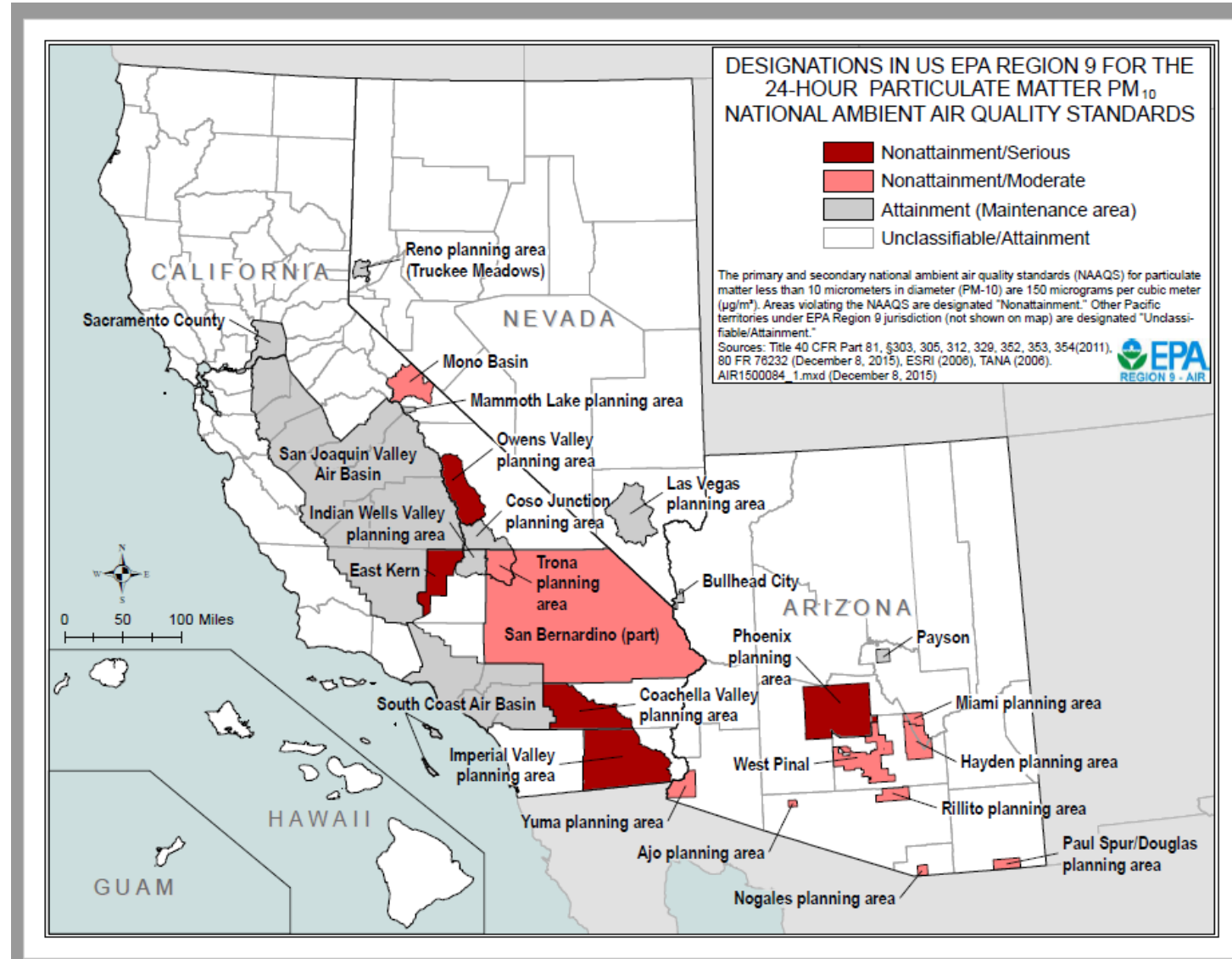
SJV - Top Ten Sources of NOx Emissions

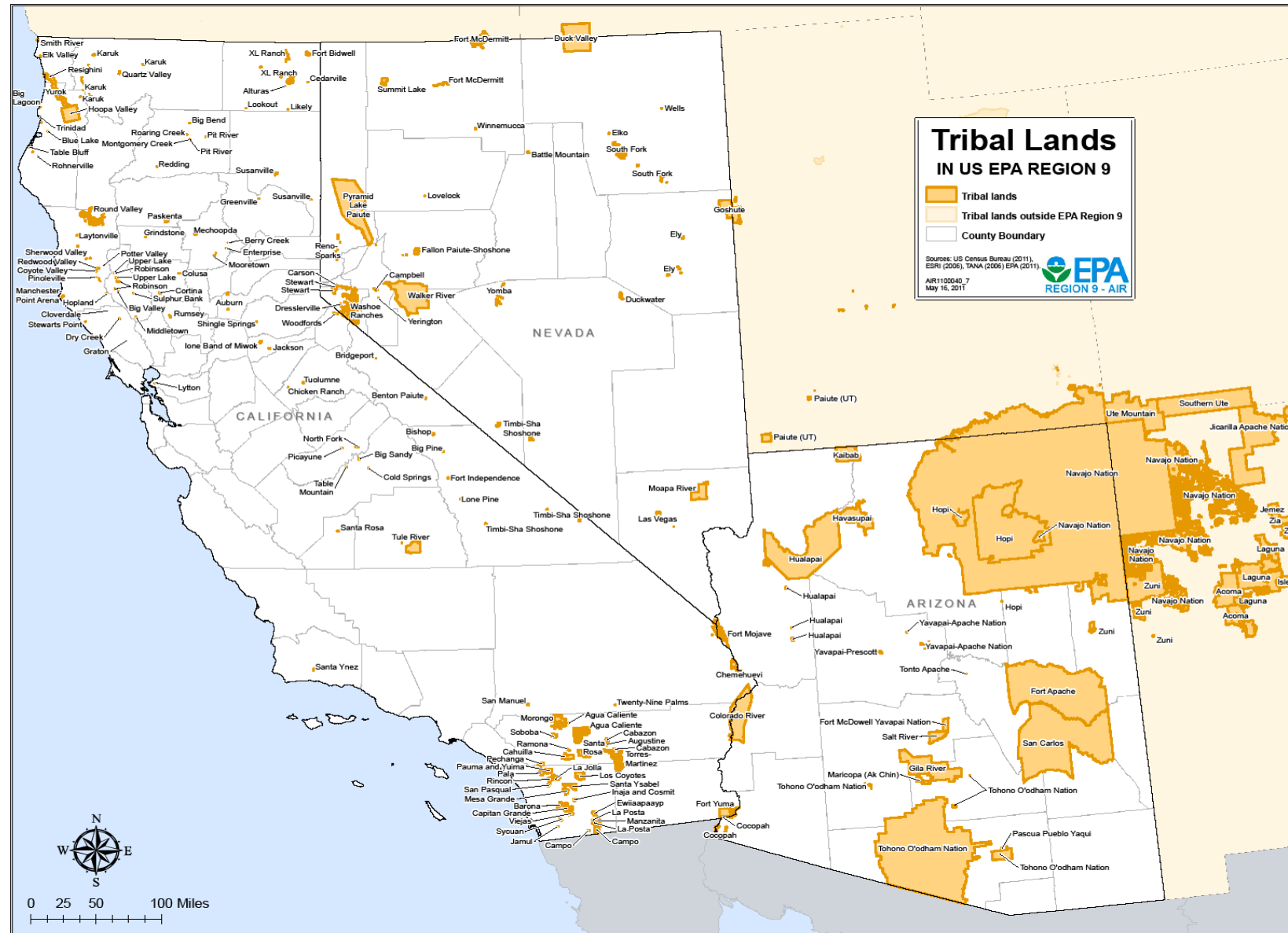
(2031)





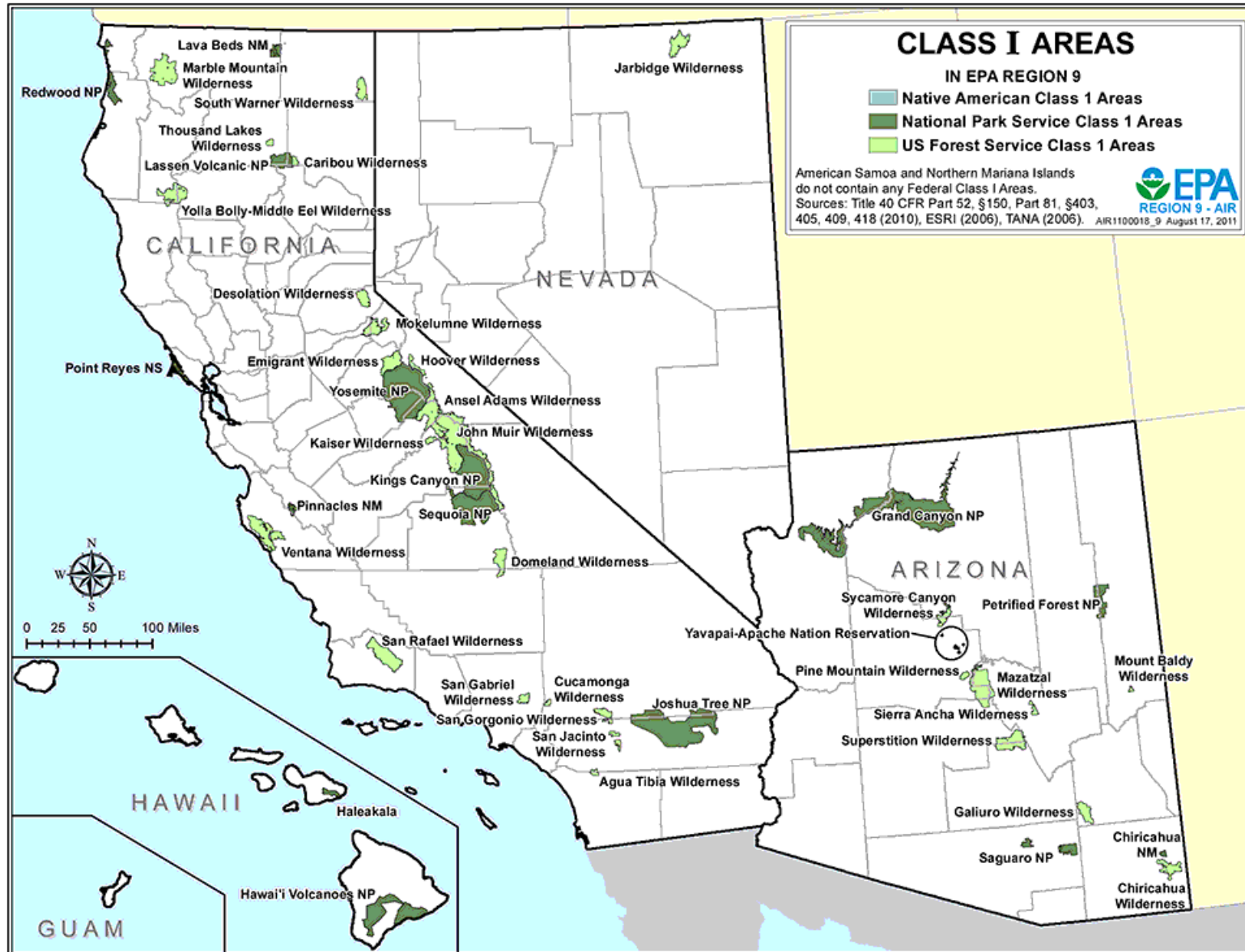
Region 9 PM₁₀ Nonattainment Areas







Region 9 Class I Areas (Regional Haze)



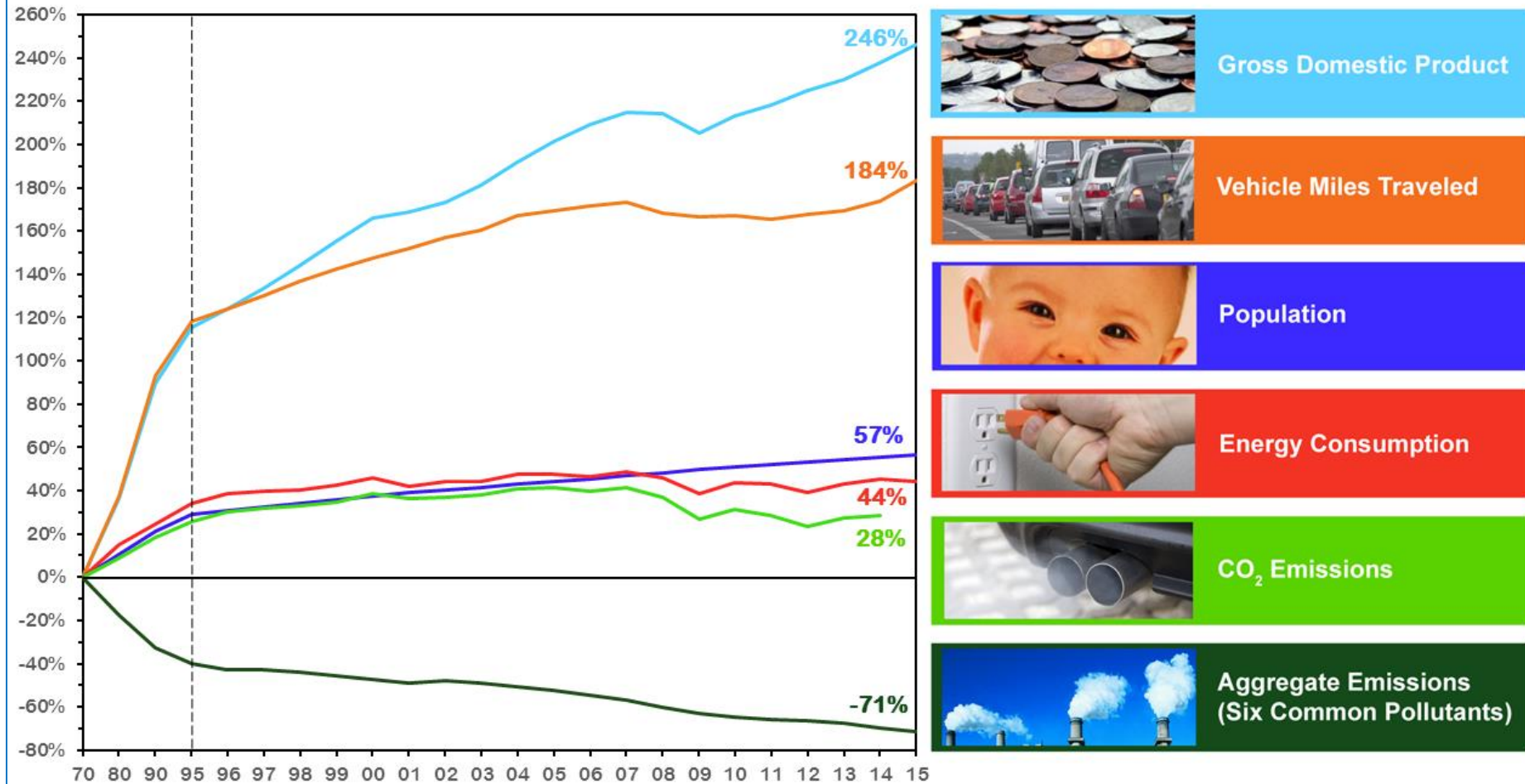


Backup Slides



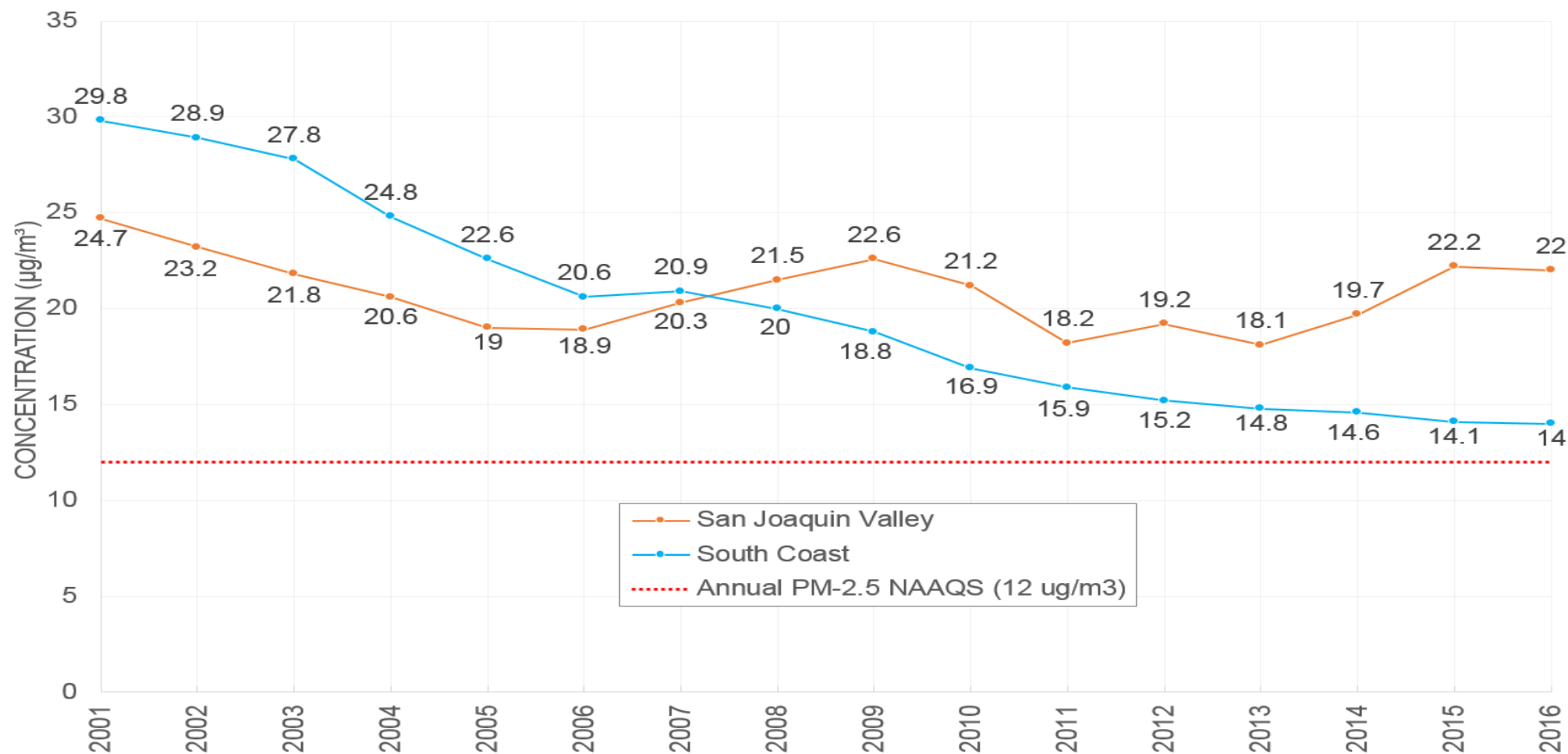
National Metric on Air Quality

Comparison of Growth Areas and Emissions, 1970-2015





PM_{2.5} Trends in SJV and SC

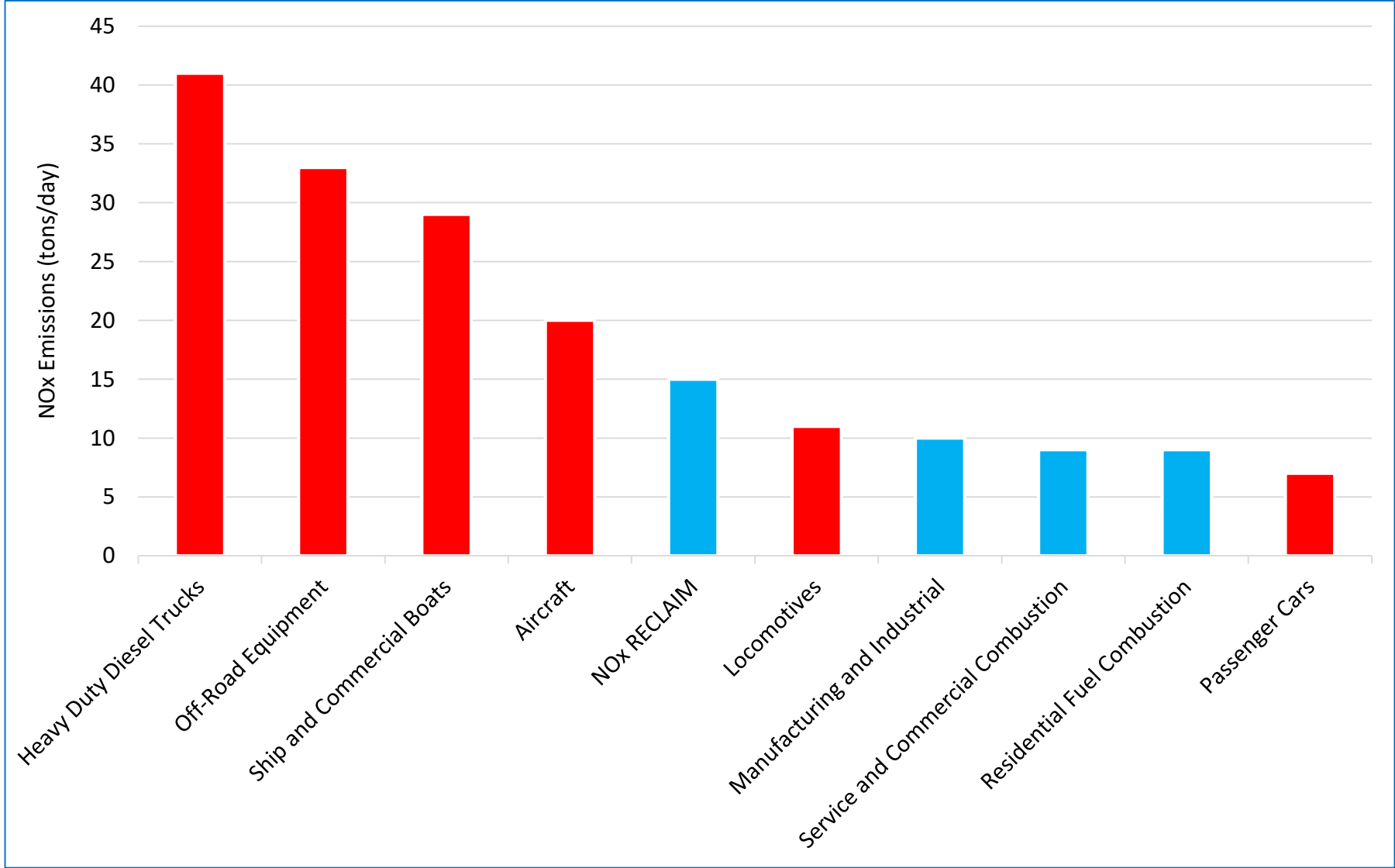


Sources: US EPA's Air Quality Systems (AQS) database (April 3, 2017) and Office of Air Quality Planning and Standards (OAQPS) (July 29, 2016). Incomplete and exceptional event data concurred by EPA excluded from design value calculations. AIR17019 - Preliminary 2016 South Coast and SJV design values.xlsx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



South Coast - Top Ten Sources of NO_x Emissions

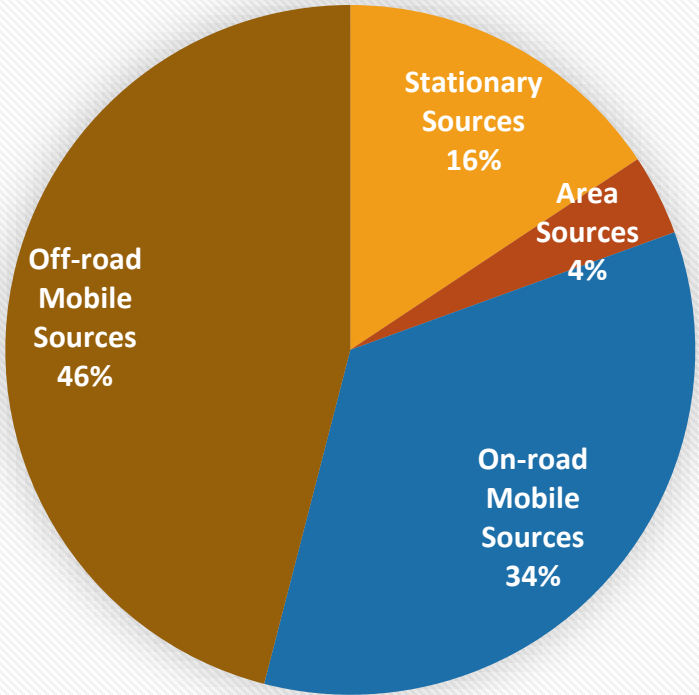
(2031)





2023 NO_x Emissions Projections – Ozone Plans

South Coast



San Joaquin Valley

