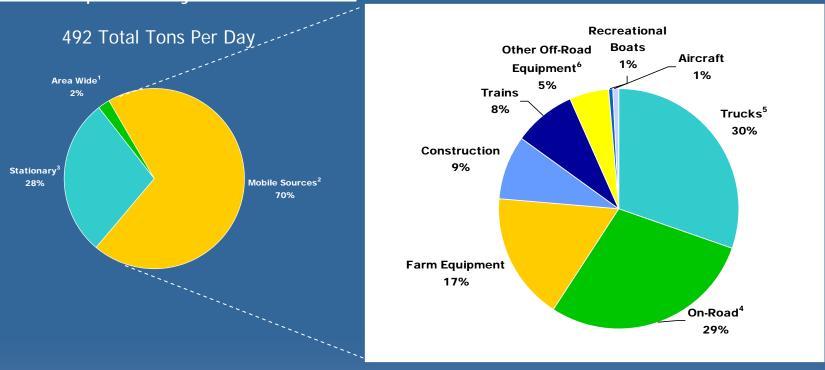


San Joaquin Valley NOx Emissions

Mobile Source NOx Emissions San Joaquin Valley NOx Emissions 342 Total Tons Per Day

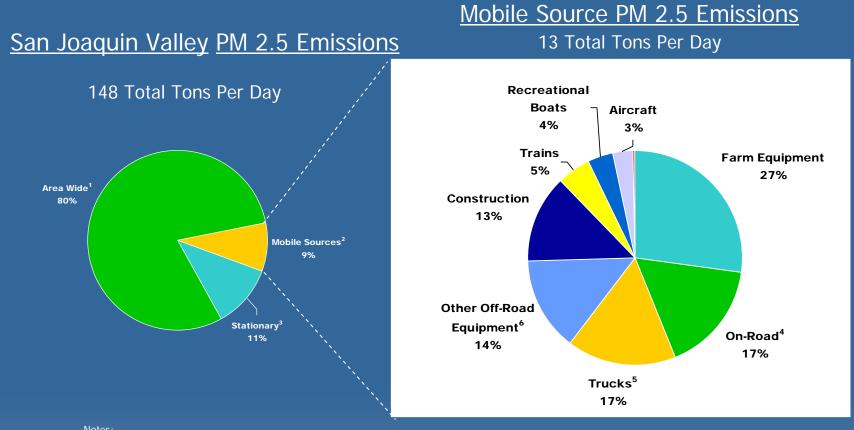


Notes:

- 1) Includes all sources of dust and several burning processes
- Includes vehicles, trucks, marine vessels, trains, aircraft, and other off-road equipment
- Includes fuel combustion activities, waste disposal, cleaning and surface coatings, petroleum production, and industrial processes
- 4) Includes light and medium duty passenger and commercial cars and trucks, and buses
- 5) Includes Medium Heavy and Heavy Heavy Diesel trucks
- 6) Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment Source: California Air Resources Board 2004 Estimated Annual Average Emissions http://www.arb.ca.gov/agd/almanac/htm



San Joaquin Valley PM 2.5 Emissions

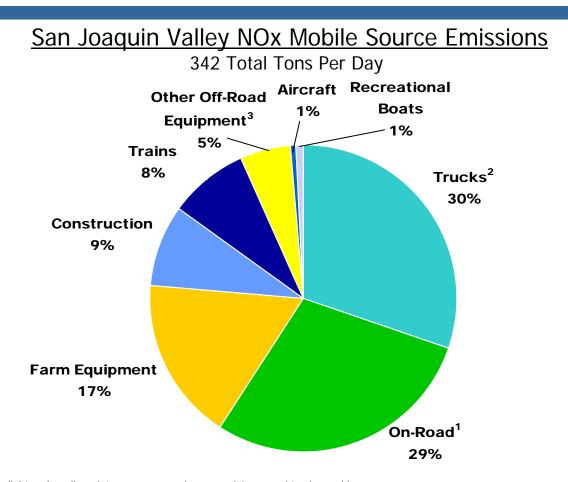


Notes:

- Includes all sources of dust and several burning processes
- Includes vehicles, trucks, marine vessels, trains, aircraft, and other off-road equipment
- Includes fuel combustion activities, waste disposal, cleaning and surface coatings, petroleum production, and industrial processes
- Includes light and medium duty passenger and commercial cars and trucks, and buses
- Includes Medium Heavy and Heavy Heavy Diesel trucks
- Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment Source: California Air Resources Board 2004 Estimated Annual Average Emissions – http://www.arb.ca.gov/agd/almanac/almanac.htm



San Joaquin Valley NOx mobile source emissions



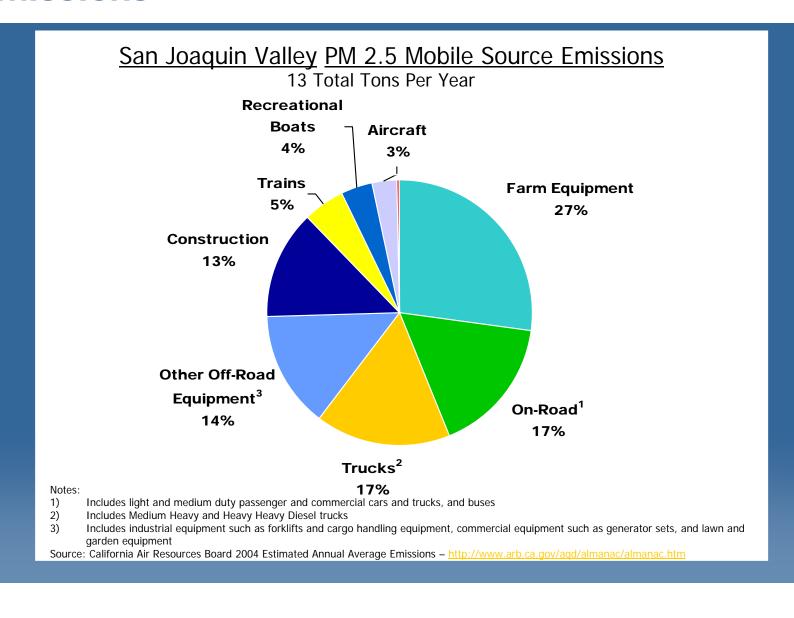
Notes:

- 1) Includes light and medium duty passenger and commercial cars and trucks, and buses
- 2) Includes Medium Heavy and Heavy Heavy Diesel trucks
- Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment

Source: California Air Resources Board 2004 Estimated Annual Average Emissions - http://www.arb.ca.gov/agd/almanac/almanac.htm



San Joaquin Valley PM 2.5 mobile source emissions

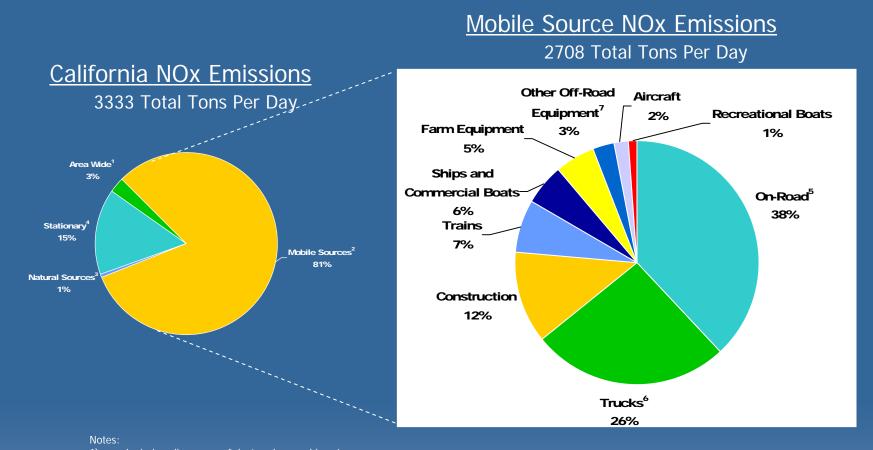


Therefore, for diesel sources in the San Joaquin Valley

- Trucks and Farm Equipment are the drivers of NOx, and
- Farm Equipment and Trucks are the drivers of PM2.5.
- Collaborative Projects that would have the greatest impacts include:
 - Idle reduction strategies along major trucking corridors
 - Truck engines retrofit program for large fleets and owner operated vehicles
 - Cleaner fuels, retrofits, replacements and repowers for farm equipment
 - > Electrification and efficiency improvements for agriculture pumps



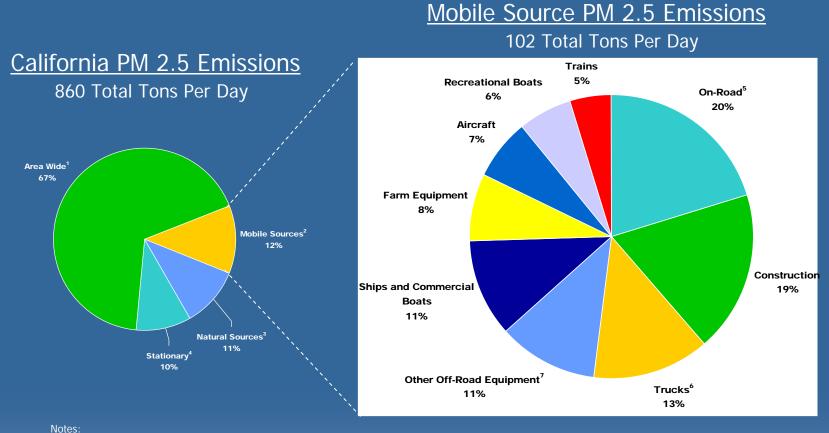
California NOx Emissions



- 1) Includes all sources of dust and several burning processes
- Includes vehicles, trucks, marine vessels, trains, aircraft, and other off-road equipment
- Represents non-anthropogenic sources, primarily wildfires
- 4) Includes fuel combustion activities, waste disposal, cleaning and surface coatings, petroleum production, and industrial processes
- 5) Includes light and medium duty passenger and commercial cars and trucks, and buses
- includes Medium Heavy and Heavy Heavy Diesel trucks
- 7) Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment Source: California Air Resources Board 2004 Estimated Annual Average Emissions http://www.arb.ca.gov/agd/almanac



California PM 2.5 Emissions



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