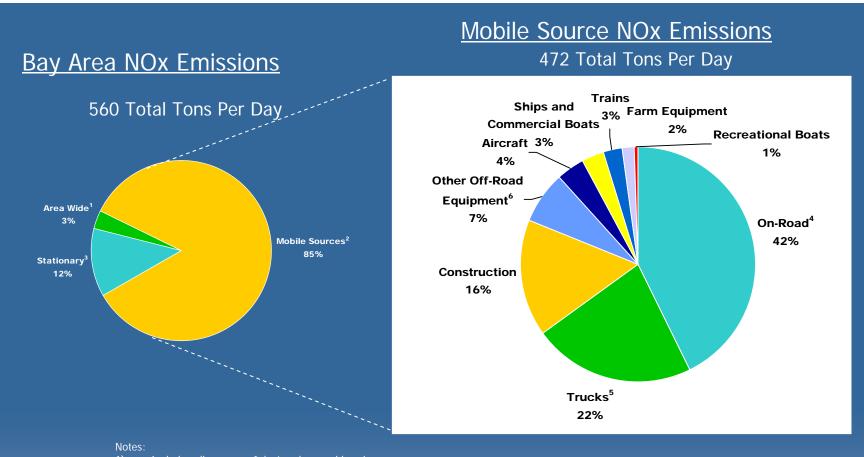


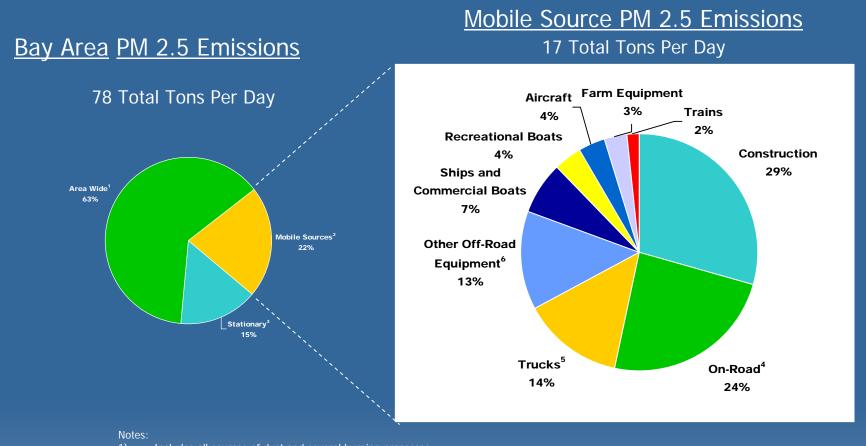
Bay Area NOx Emissions



- 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



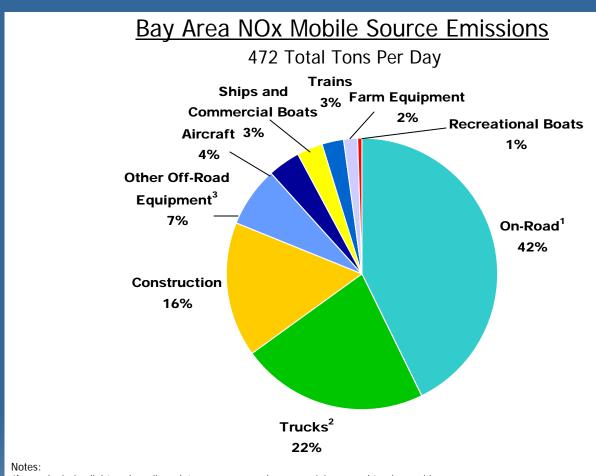
Bay Area PM 2.5 Emissions



- 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



Bay Area NOx mobile source emissions

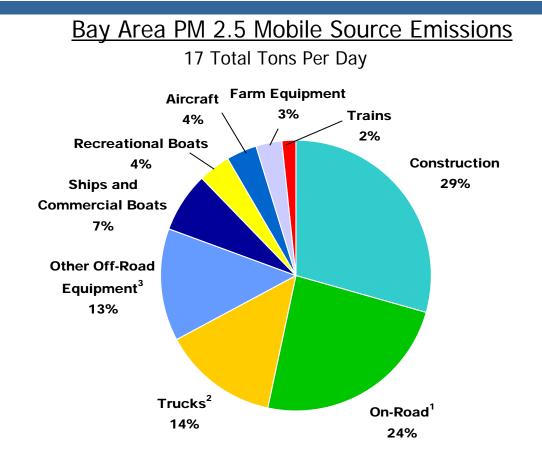


- 1) Includes light and medium duty passenger and commercial cars and trucks, and buses
- 2) Includes Medium Heavy and Heavy Heavy Diesel trucks
- Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment

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



Bay Area PM 2.5 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

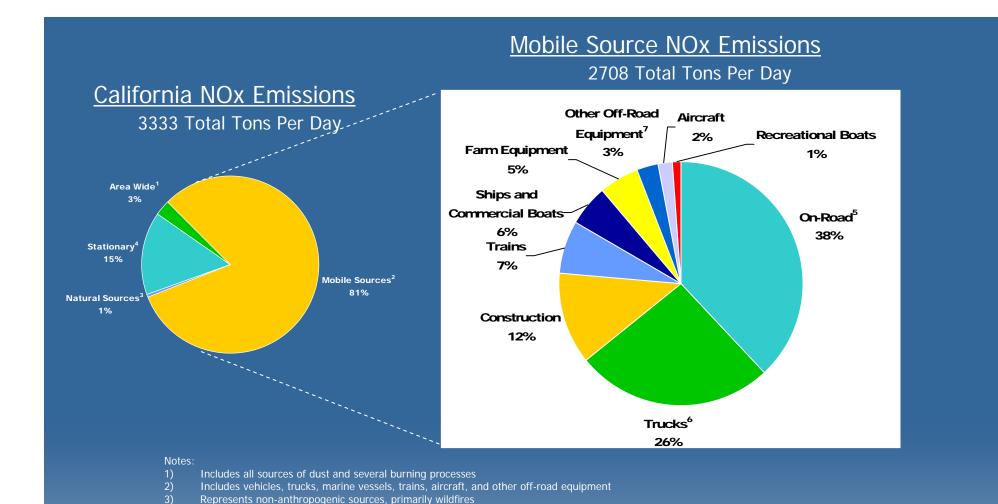
Source: California Air Resources Board 2004 Estimated Annual Average Emissions - http://www.arb.ca.gov/agd/almanac/almanac.htm

Therefore, for diesel sources in the Bay Area

- <u>Trucks</u> and <u>Construction Equipment</u> are the drivers of NOx, and
- Construction, Trucks and Off-road Equipment are the drivers of PM2.5.
- Collaborative Projects that would have the greatest impacts include:
 - Idle reduction strategies along major trucking corridors
 - Truck engine retrofit program for large fleets and owner operated vehicles
 - Green contracting agreements for public contracts
 - Construction equipment retrofits through rental companies
 - Inter-modal efficiency programs
 - Electrification of port/switcher yard/transfer station equipment



California NOx Emissions



Includes fuel combustion activities, waste disposal, cleaning and surface coatings, petroleum production, and industrial processes

Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment

Includes light and medium duty passenger and commercial cars and trucks, and buses

Includes Medium Heavy and Heavy Heavy Diesel trucks

Source: California Air Resources Board 2004 Estimated Annual Average Emissions - h



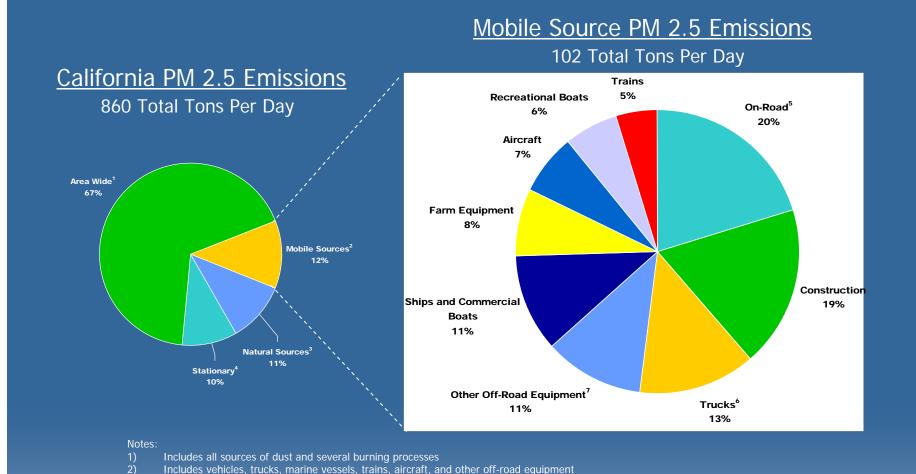
California PM 2.5 Emissions

Represents non-anthropogenic sources, primarily wildfires

Includes Medium Heavy and Heavy Heavy Diesel trucks

Source: California Air Resources Board 2004 Estimated Annual Average Emissions - h

Includes light and medium duty passenger and commercial cars and trucks, and buses



Includes fuel combustion activities, waste disposal, cleaning and surface coatings, petroleum production, and industrial processes

Includes industrial equipment such as forklifts and cargo handling equipment, commercial equipment such as generator sets, and lawn and garden equipment