



Air Quality Opportunities and Challenges in The Sacramento Region

Larry Greene
Executive Director

Attainment Status

Attainment

CO

Lead

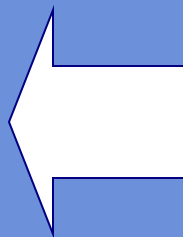
PM 10

(1- Hr Ozone) Pending

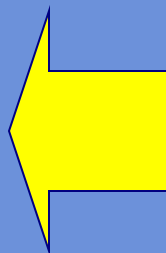
Non-attainment

PM 2.5

8 – Hr Ozone



The Good News

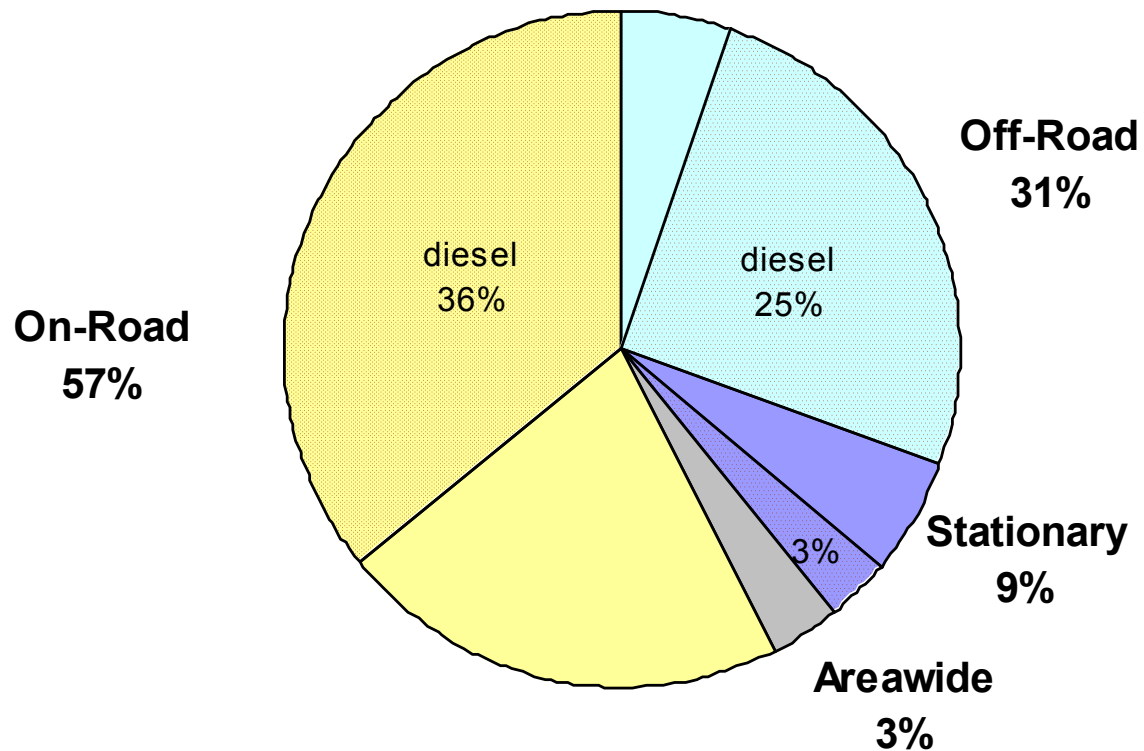


The Bad News



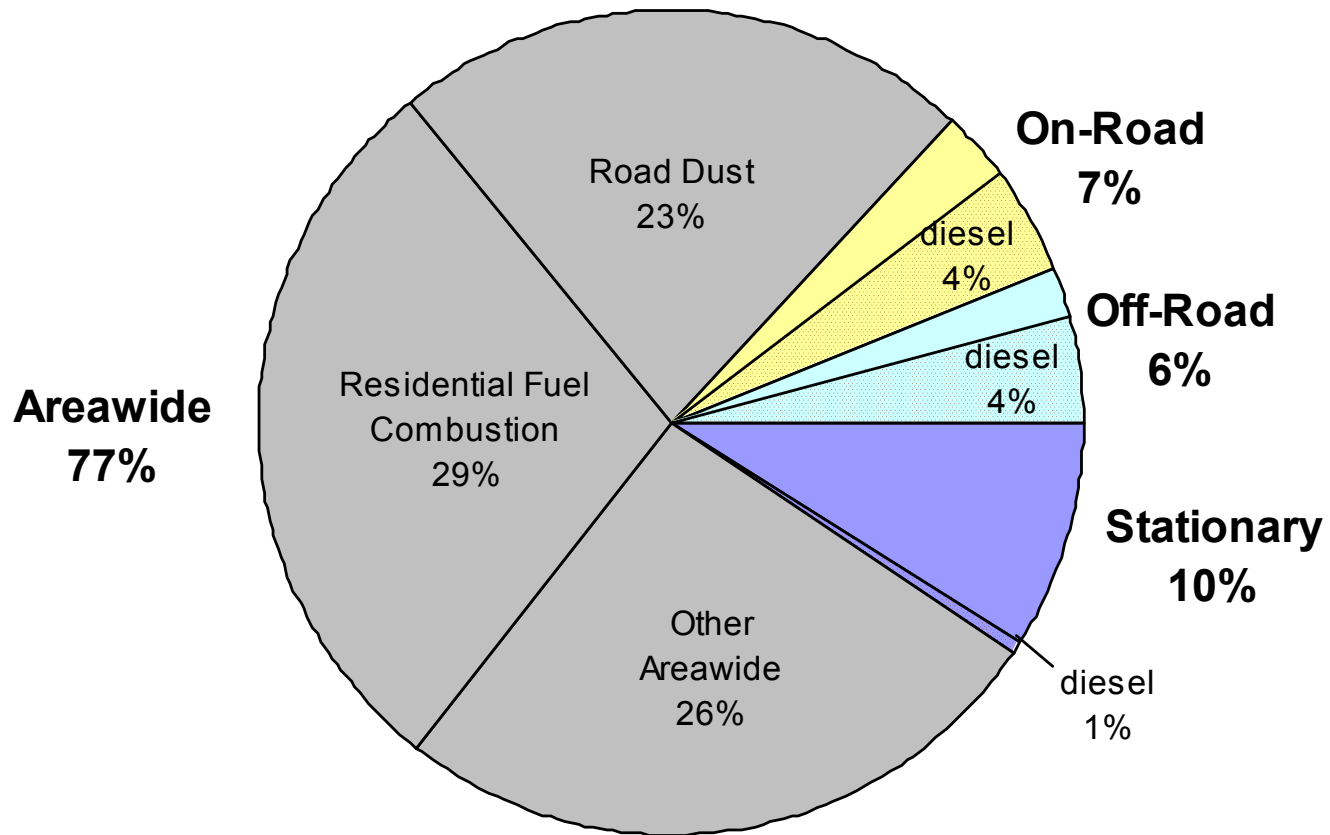
**2008 NOx - Annual Average Inventory, 160 tpd
Sacramento Ozone Nonattainment Area**

NOx from Diesel Combustion (spotted pattern) = 64% (103 tpd)



**2008 PM2.5 - Annual Average Inventory, 46 tpd
Sacramento Ozone Nonattainment Area**

PM2.5 from Diesel Combustion (spotted pattern) = 9% (4 tpd)



Obstacles to Attainment

- Population growth



- Technology limitations and costs.



- Lack of funding for transit



- Existing land use patterns



- Background concentrations



Sacramento Incentive Programs – Reaching new sources of reductions

Incentive programs

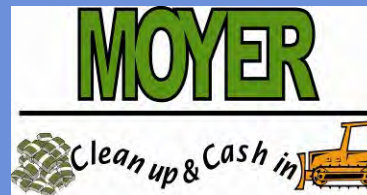
1998 – 2010

Moyer & SECAT

4832 engines

\$138 million

3216 tpy NOx



Great Change Out

2134 devices

\$1.1 million

10 tpy PM_{2.5}



Wood Stove
Fireplace
Change Out

Mow Down (since 1997)

12072 mowers

\$1.5 million

1.43 tpy NOx



DERA Successes

Hybrid Truck and Bus Replacement Program

Project Description

Grant to offset a portion of the incremental cost for the replacement of 6 MHD trucks, and 8 pre-1987 school buses.

\$553,360 (or \$1,939,360) Total Leveraged amount

- **Medium and Heavy-Duty Hybrid Vehicles**
- **14 Engines affected**



Kenworth Hybrid Truck – Eligible for the Hybrid Grant Program