



South Coast AQMD Car Scrapping & Repair Programs Current Status and Future Directions



February 25, 2009

Dean Saito

On-Road Mobile Source Strategies

Mobile Source Division

Outline

- Why AQMD Is Interested
- How Is AQMD Proceeding
- Next Steps

Goals for the Forum and Roundtable

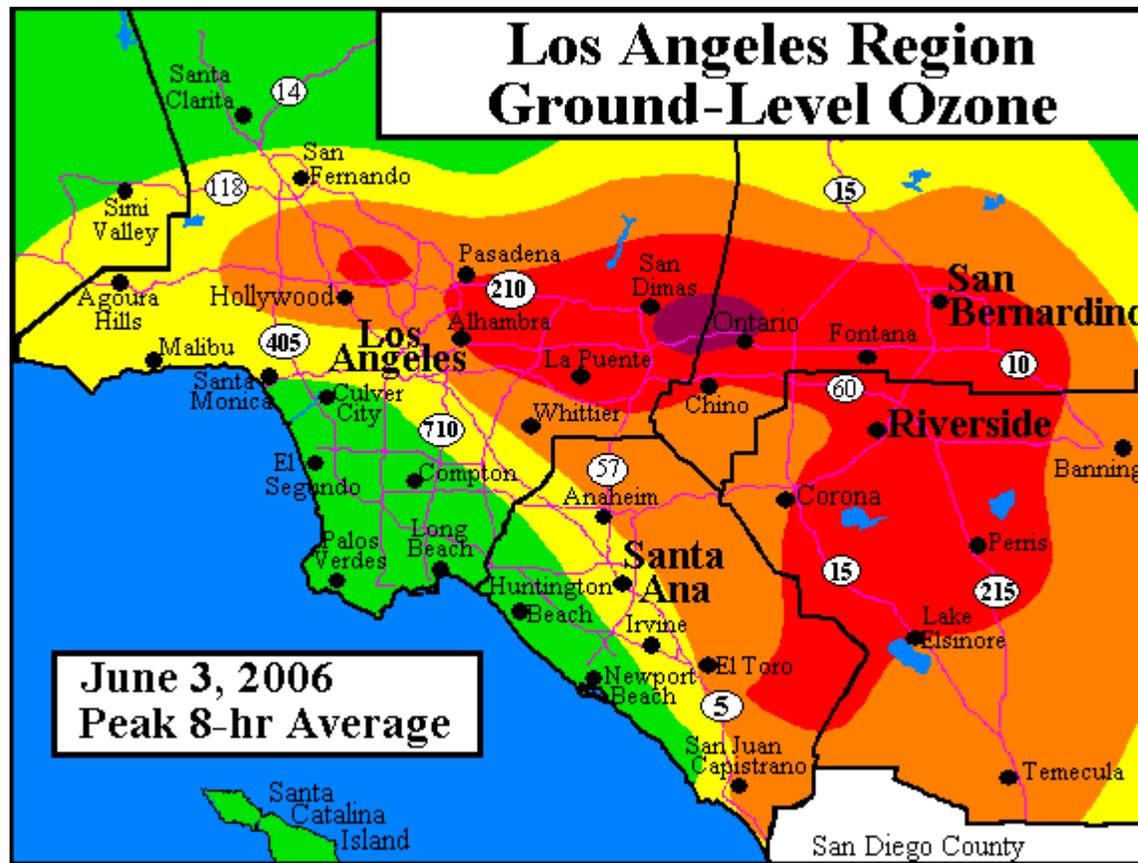
Identify and Discuss Current and Upcoming
Scrappage & Repair Programs

Identify potential issues and strategies with
current/future programs that may address
whether such programs can co-exist

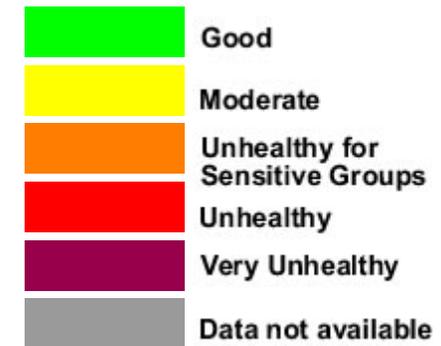
Discuss potential improvements to current and
future programs

Why is AQMD Interested

SCAQMD has the Worst Air Quality in the Nation



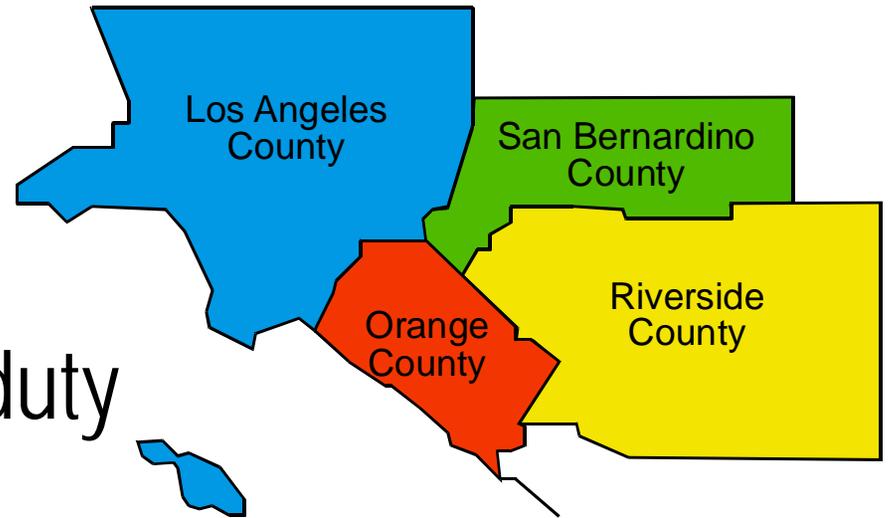
Los Angeles Region
June 3, 2006



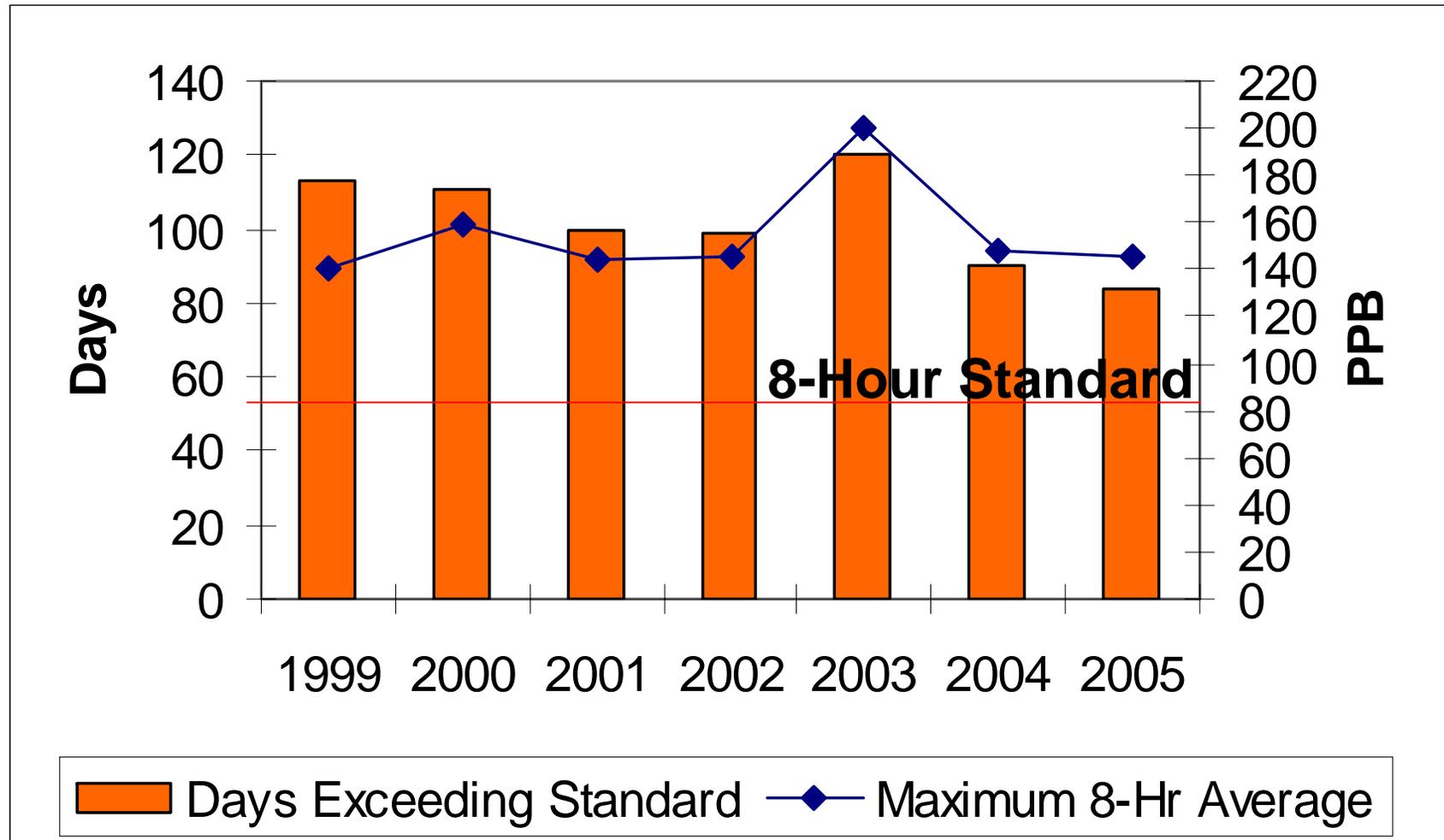
AQMD Background Setting

South Coast Basin:

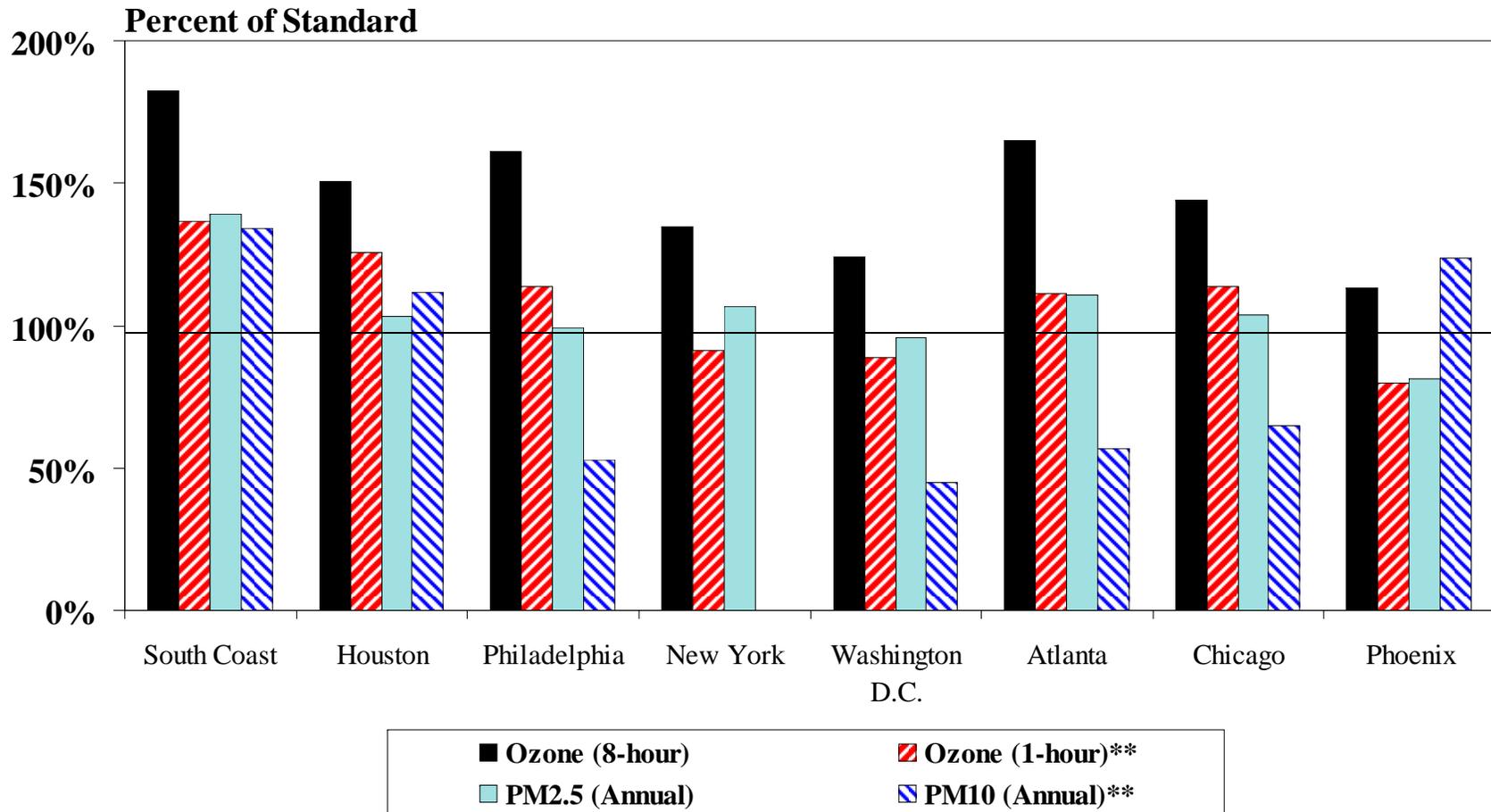
- 4-county region
- 11,000 sq. miles
- 16+ million residents
- 11+ million light/medium duty vehicles



Trends of Basin 8-Hour Ozone

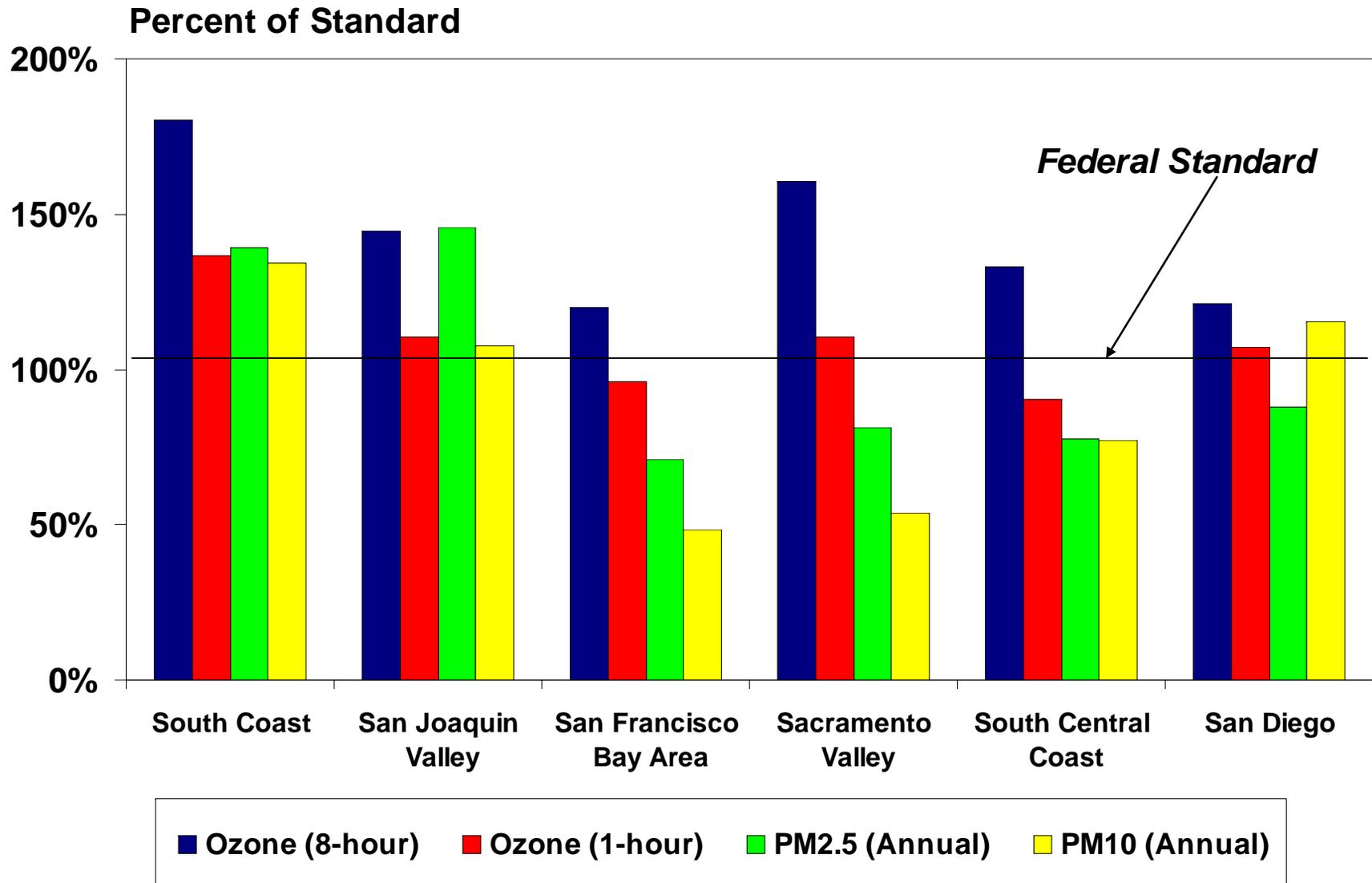


2007 South Coast Air Basin Air Quality Compared to Other U.S. Cities



** Based on the former standards.

2007 South Coast Air Basin Air Quality Compared to Other California Air Basins



10 Most Particulate-Polluted Counties in US

(annual average PM_{2.5})

1. Bakersfield, CA
- 2. Riverside - San Bernardino, CA**
3. Visalia, CA
4. Liberty, Pittsburg, PA
5. Birmingham, AL
6. Weirton, OH-WV-PA
- 7. Rubidoux, CA I**
- 8. Fontana, CA**
9. Fresno, CA

Recent CARB Assessment of PM Health Effects



SCAB Cases/Year due to PM2.5 *

Premature Deaths	5,400
Hospitalizations	2,400
Asthma & Lower Respiratory Symptoms	140,000
Lost Work Days	980,000
Minor Restricted Activity Days	5,000,000

•1999-2000 Air Quality Data

Source: California Air Resources Board

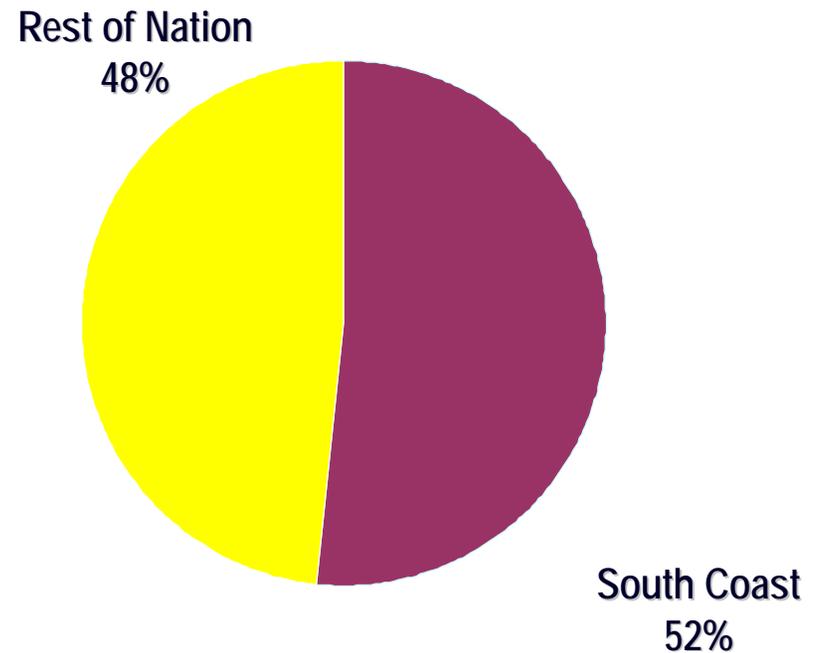
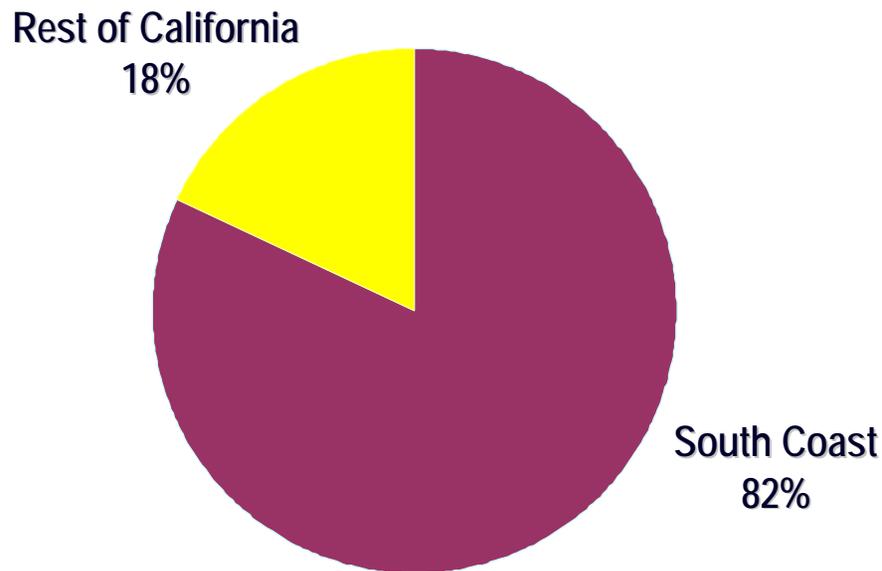
Public Health Issues

- Air pollution linked to asthma, increased cancer risk, and children's health
 - Children's Health Study showed chronic low lung function due to air pollution
 - Mobile sources contribute to 89% of average cancer risk from air toxics in South Coast Air Basin
- Recent findings indicate State has second highest toxic air concentration



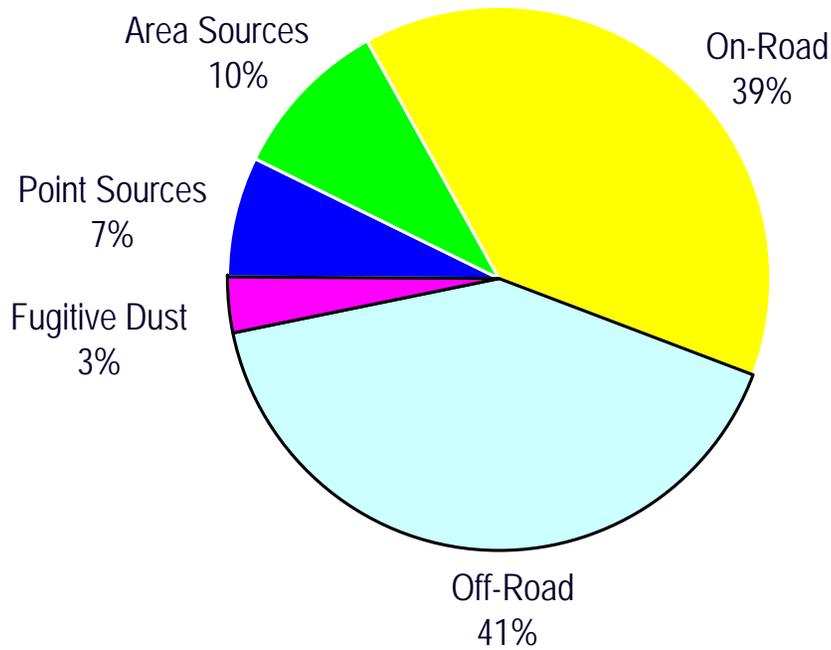
PM2.5 Disproportionate Exposure South Coast Air Basin

Population-Weighted Exposure Above NAAQS Based on
2000-2002 AIRS Data



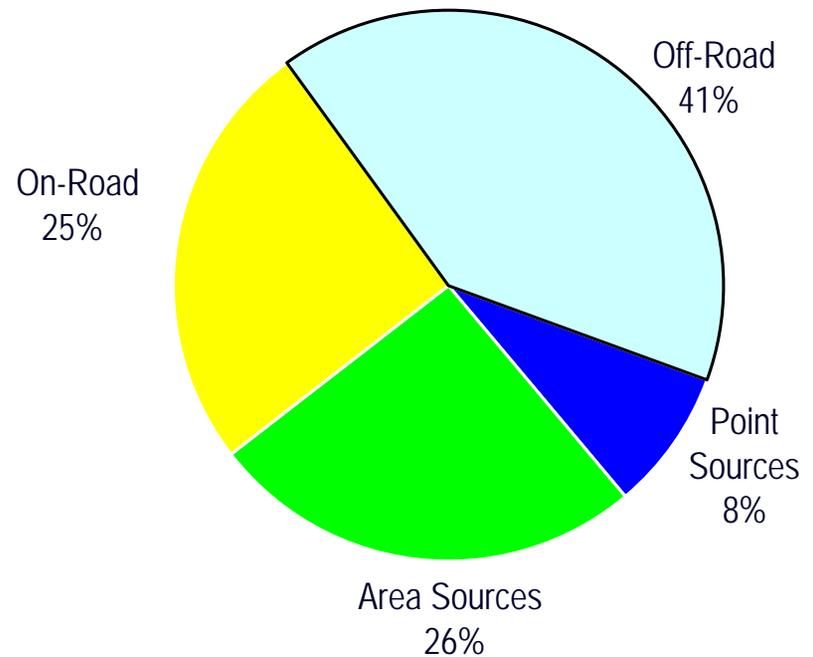
Emissions by Major Category

PM2.5, 2014



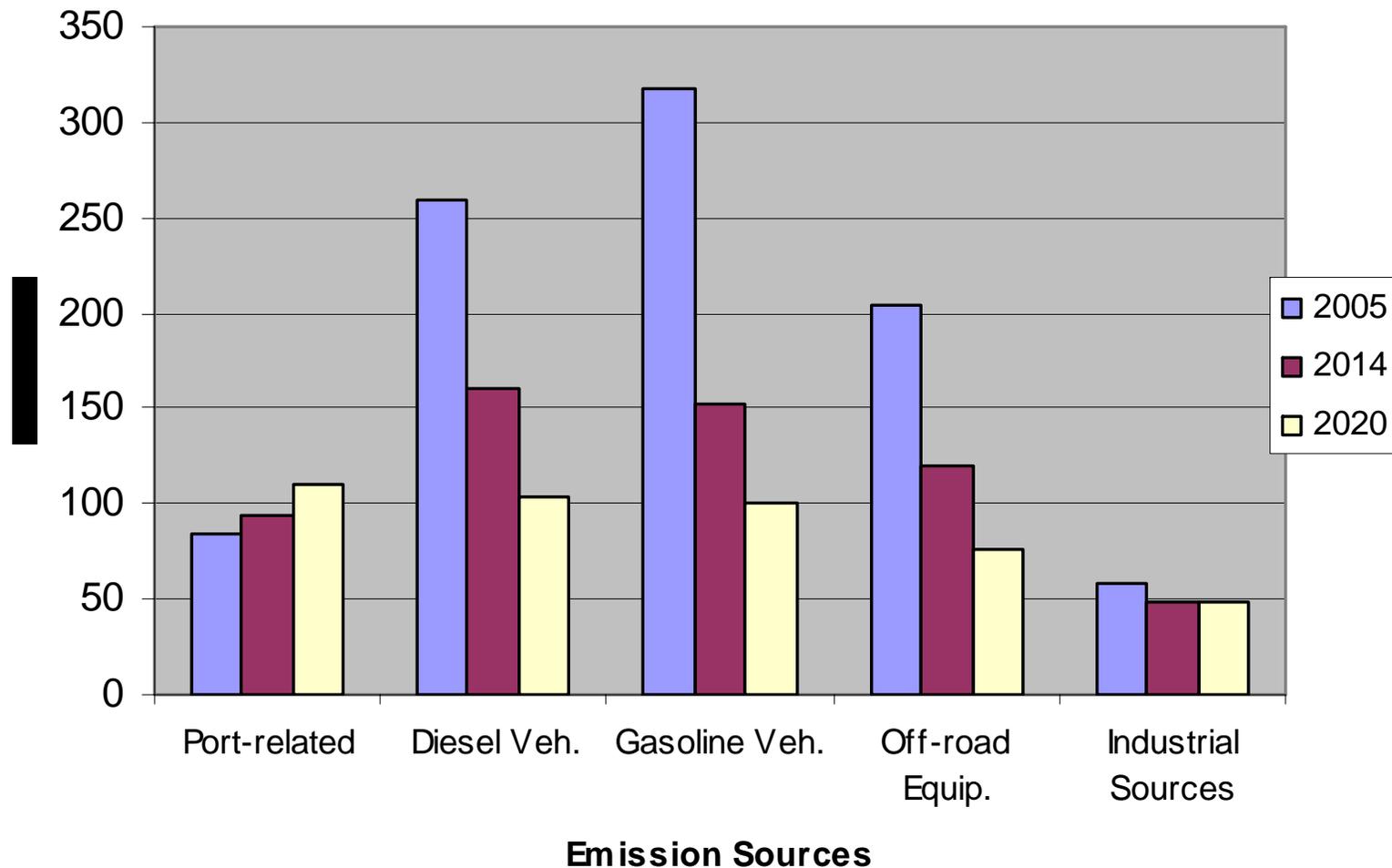
(NO_x, SO_x, PM2.5)

8-Hr Ozone, 2023



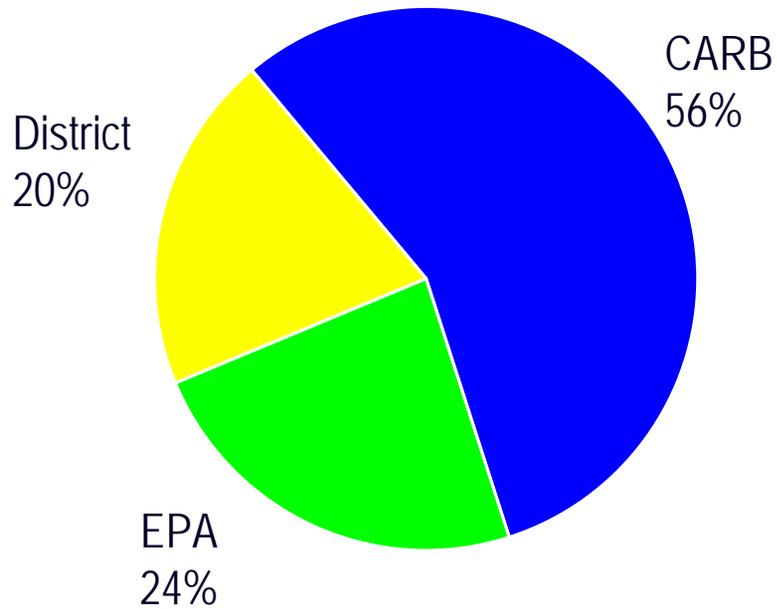
(VOC, NO_x)

NOx Emissions In South Coast Air Basin from a Variety of Sources



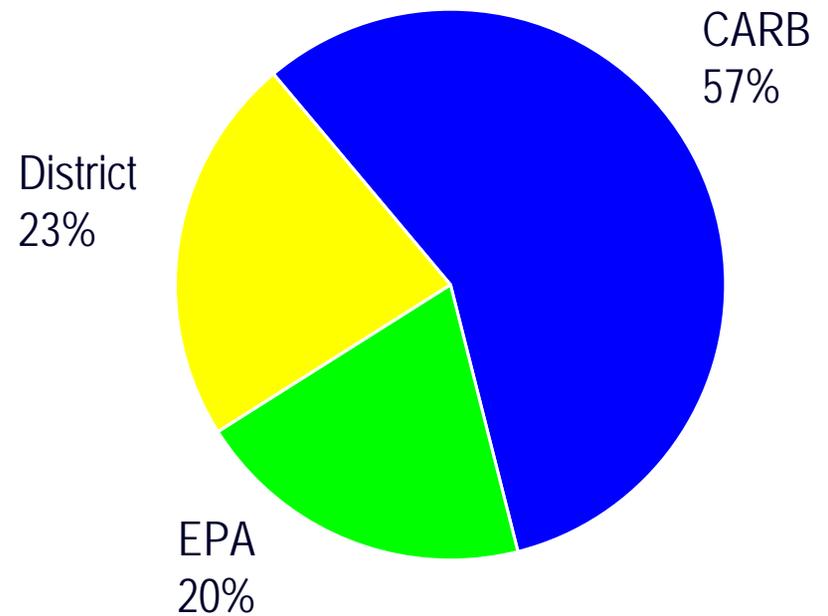
Primary Emissions Responsibility by Agency

PM2.5, 2014



(NO_x, SO_x, PM2.5)

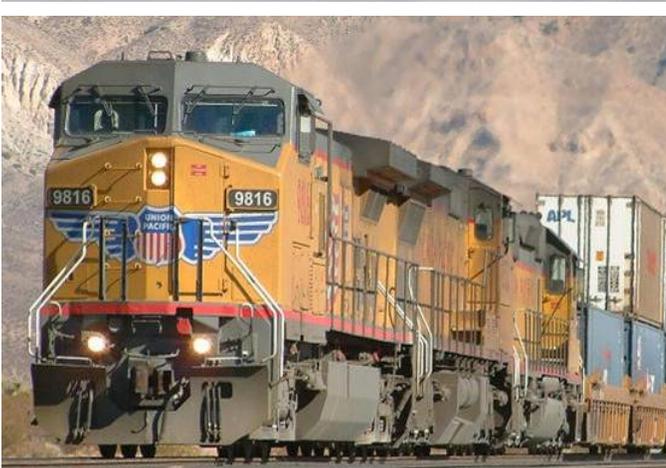
8-Hr Ozone, 2023



(VOC, NO_x)

Goods Movement Growth 2001-2020

- 300 % increase in cargo through the ports
- 170% increase in truck travel
- 150% increase in rail cargo



Revised Reduction Targets (tons per day)

	2007	2014	2023
NO _x	---	203 (31%)	389 (77%)
VOC	---	60 (11%)	116 (22%)
NO _x -IM	73	75	48
VOC-IM	76	60	43

How is the AQMD Proceeding

2007 AQMP SIP Submittal

- State of California Smog Check Improvement Commitments
- SCAQMD AQMD Commitments
 - - CM #2007SCONRD-02 (Phase III OBD)
 - - CM #2007MOB-05 (Light Duty High Emitter ID Via Remote Sensing)
 - - CM #2007MOB-06 (Medium Duty High Emitter ID Via Remote Sensing)

2007 SIP Strategy

- State of California Smog Check Improvement Commitments
 - More stringent cutpoints
 - Annual Inspection of Older Vehicles
 - Annual Inspection for High Annual Mileage Vehicles
 - Visible Smoke
 - Inspection of Light/Medium Duty Diesel
 - Inspection of Motorcycles
- Expanded Passenger Vehicle Retirement
 - Current CAP Program - 18,000 Vehicles Scrapped Statewide Increased by 50,000/yr in South Coast and 10,000/yr in San Joaquin

Next Steps