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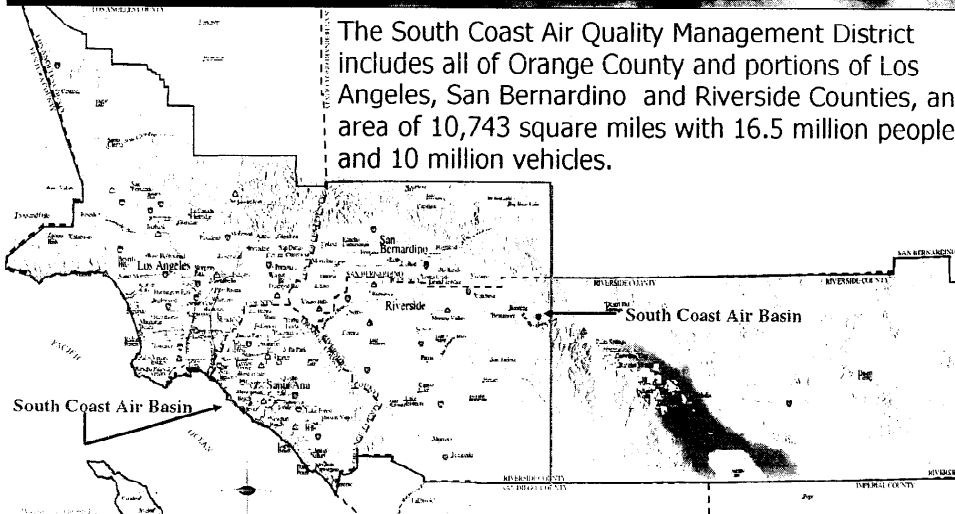
Air Quality Management Plan



South Coast Air Quality Management District

Draft 2007 AQMP

South Coast Air Quality Management District



The South Coast Air Quality Management District includes all of Orange County and portions of Los Angeles, San Bernardino and Riverside Counties, an area of 10,743 square miles with 16.5 million people and 10 million vehicles.

Overview

- Regional Blueprint to Meet Air Quality Standards
- Integrated Plan to Address Both PM2.5 and 8-hour Ozone Standards
 - PM2.5: 2015
 - Building Blocks
 - ⇒SOx, PM2.5, NOx, VOC
 - 8-Hour ozone: 2021/2024
 - Building Blocks
 - ⇒VOC, NOx

Recent CARB Health Impact Estimates

- 2.4% from economic movement
- 9,000 hospitalizations / year
- 1.7 million cases respiratory illness / yr
- 1.3 million school absences
- 2.8 million lost workdays / year

Source: CARB 2004, California Estimates

USC Children's Health Study

New England Journal of Medicine, Sept 2004

- Lower lung-function growth rate associated with PM₁₀, PM_{2.5}, NO₂ and acid vapor
- "By age 18, lungs of many children growing up in smoggy areas are underdeveloped and will likely never recover"
- Pollutants of harm "derive from vehicle-related emissions and combustion of fossil fuels"



When we began the study 10 years ago, we had no idea we would find effects on the lung this serious."

— John Peters, M.D., study's senior author

Air Quality Management Who Does What

U.S. Environmental Protection Agency

- **Adopts Health-Based National Air Quality Standards**
- **Adopts tailpipe emission standards for out-of-state mobile sources (trucks, trains, buses) and in-state trains**
- **Oversees State Clean Air Plans**

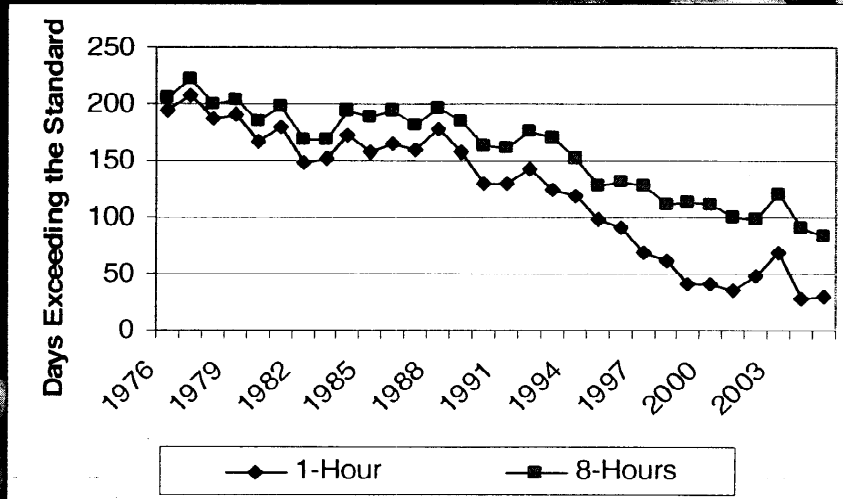
California Air Resources Board

- **Adopts Health-Based State Air Quality Standards**
- **Adopts in-state tailpipe emission standards for cars, trucks and busses. Regulate consumer products as used by consumers versus industry**
- **Approves Local Air District Clean Air Plans**

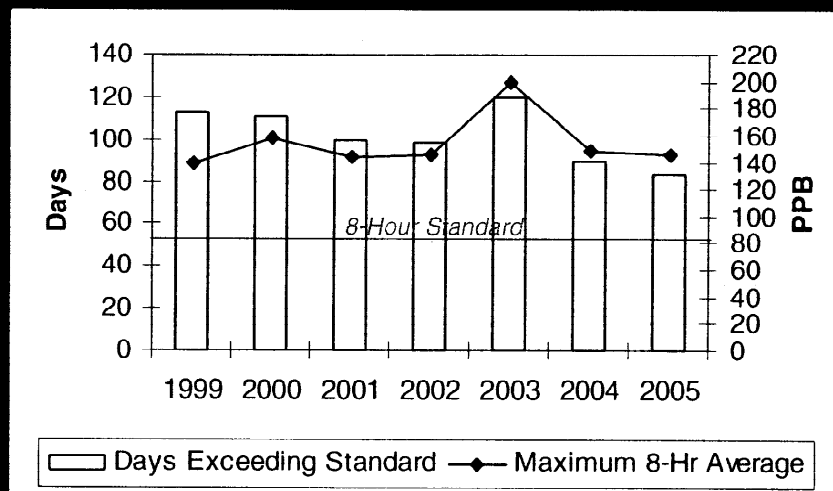
Local Air Districts

- **Monitor Air Quality; Issue Health Alerts**
- **Prepare Clean Air Plans**
- **Primary responsibility for all sources of air pollution, other than tailpipe emission standards for motor vehicles**
- **Respond to Nuisance Complaints**

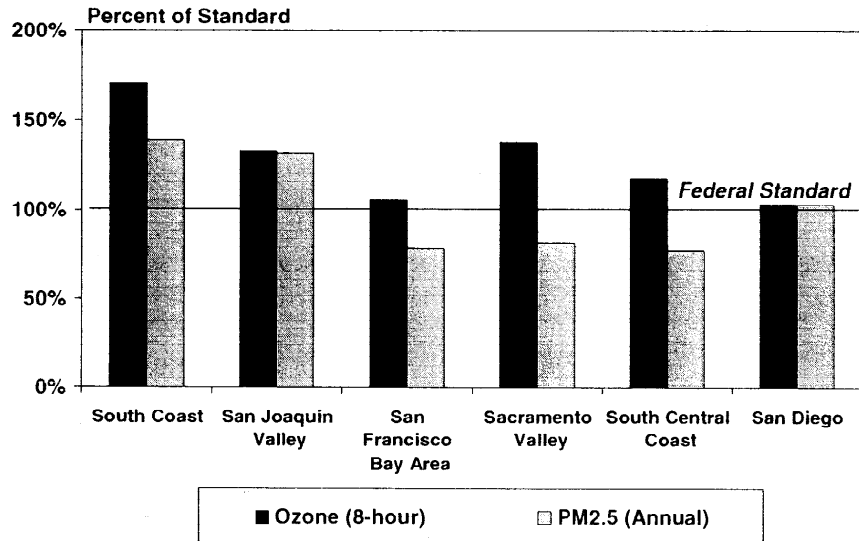
Air Quality Trend Days Exceeding Ozone Standards



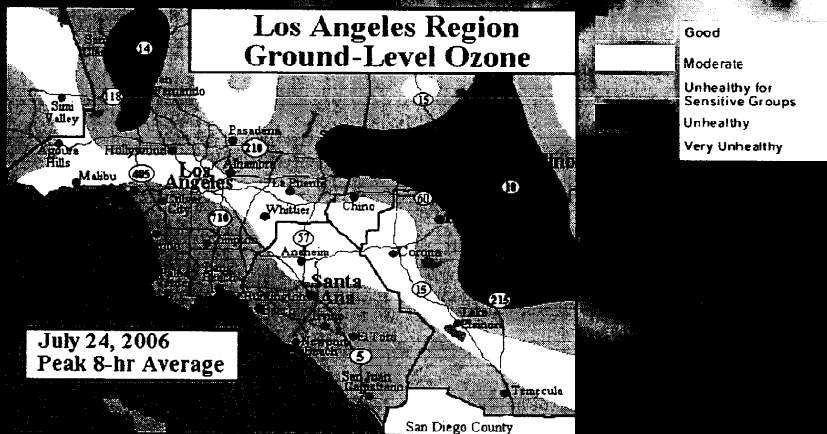
Trend of Basin 8-Hour Ozone



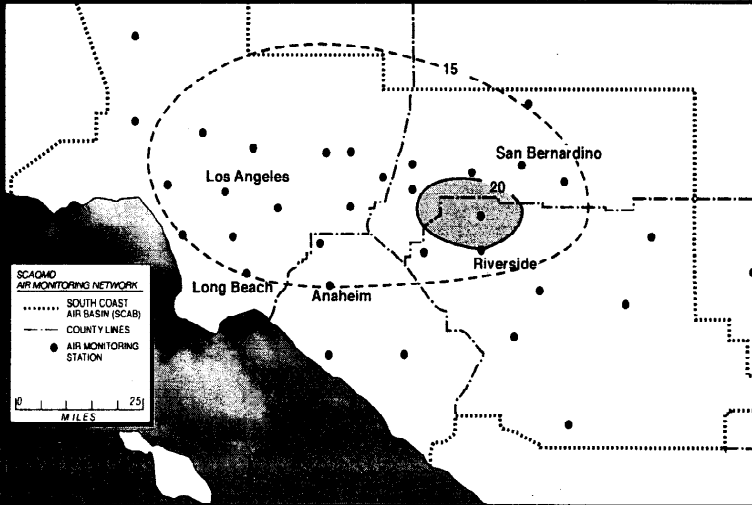
2005 South Coast Air Basin Air Quality Compared to Other California Air Basins



Severe Air Quality Problem

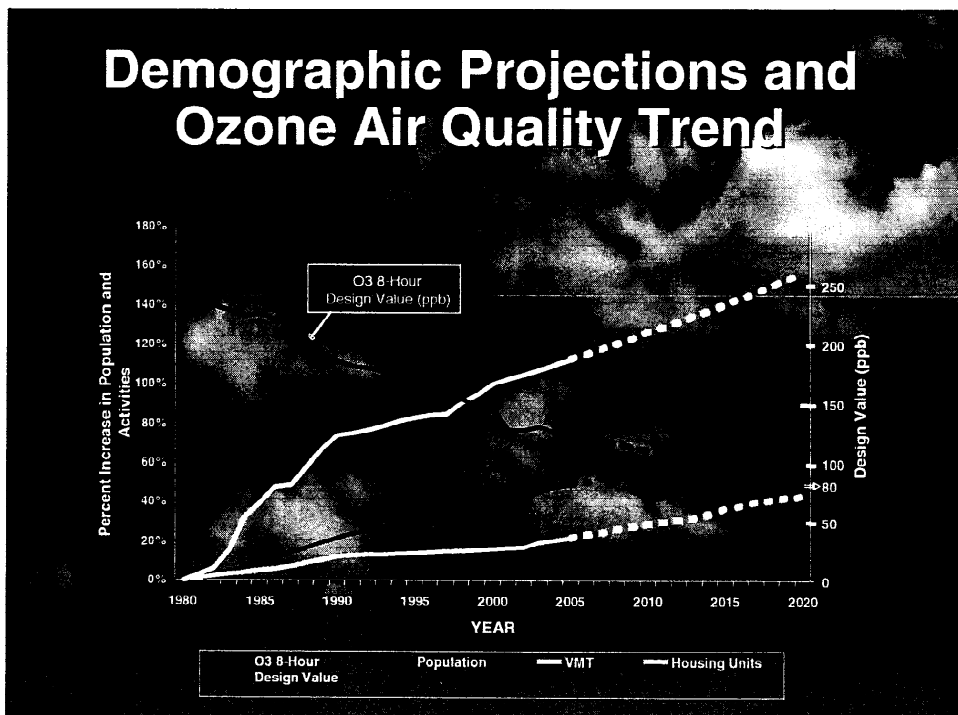


2005 Annual Average PM2.5 Concentration



Southern





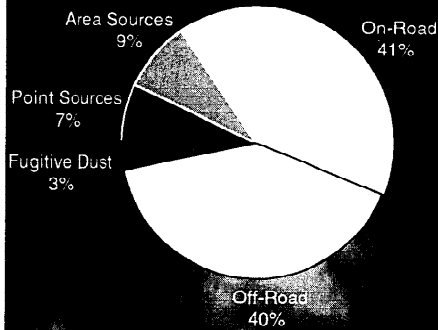


Goods Movement Growth 2001-2020

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

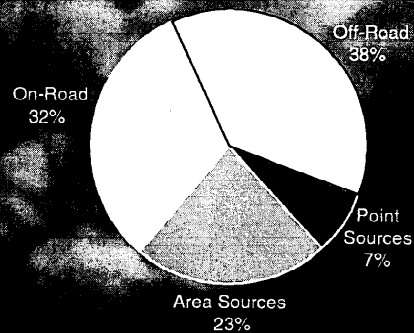
Primary Emissions by Major Category

PM2.5, 2014



(NO_x, SO_x, PM)

8-Hr Ozone, 2010



(VOC, NO_x)

Highlights of Control Measures

- New Development and Re-Development Projects
- Consumer Products Labeling and Use Restrictions
- Facility Modernization
- Backstop Rule for Ports and Port-Related Facilities
- Concurrent Reductions with AB32 greenhouse gas strategies

Consequences of Non-attainment

- Adverse Public Health Impacts
- Economic Impacts due to Health Care, Loss of Productivity
- Federal Sanctions
 - Offset Requirements
 - Loss of Federal Transportation Funds
- Federal Implementation Plan

Schedule

- Public Workshops, Briefings to Focus Groups – Oct. to Dec. 2006
- CARB's State Strategy – Jan. 2007
- Final Draft AQMP – Jan. 2007
- Additional Public Workshops – Feb.-March 2007
- Adoption Hearing – April 2007
- CARB Hearing – May 2007
- Submittal to U.S. EPA – June 2007

Take-Away Messages

- California has worst A.Q. in nation
- Health impacts higher than previously estimated
- Meeting federal attainment deadlines difficult to almost impossible
- Sanctions will be severe
- All feasible control strategies needed especially for mobile sources



Cleaning the air that we breathe.