

Summit

2007 Air Quality Management Plan



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Summit Purpose

- **Involve experts from variety of areas:**
emissions controls, new technologies, fuels,
energy conservation, and transportation
- **Solicit in an open forum:**
New and innovative concepts to augment
staff proposals for future emissions
reductions



AQ-Related Health Studies

PUBLISHED 2005

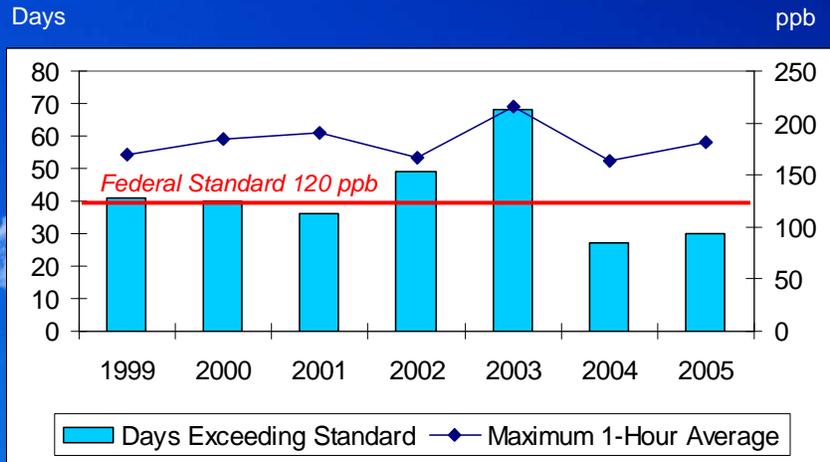
- Mortality and Air Pollution in SoCal
 - USC School of Medicine (Jerrett)
- Coronary Heart Disease and Particulates
 - Loma Linda School of Public Health (Chen)
- Atherosclerosis and Air Pollution in SoCal Residents
 - USC School of Medicine (Künzli)
- Atherosclerosis and Particulates, laboratory animal study
 - NYU School of Medicine (Sun)

What Are the Health Consequences Today?

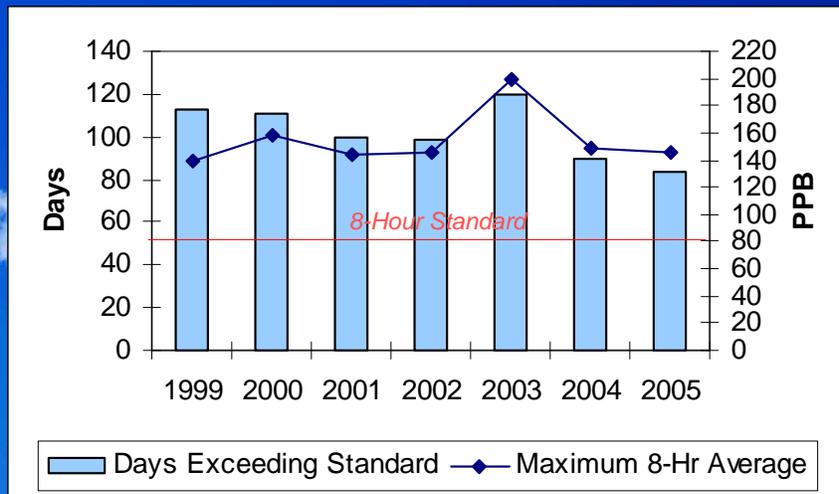
- 6,500 premature deaths / year
- 9,000 hospitalizations / year
- 1.7 million cases respiratory illness / yr
- 1.3 million school absences
- 2.8 million lost workdays / year

Source: CARB January 2004

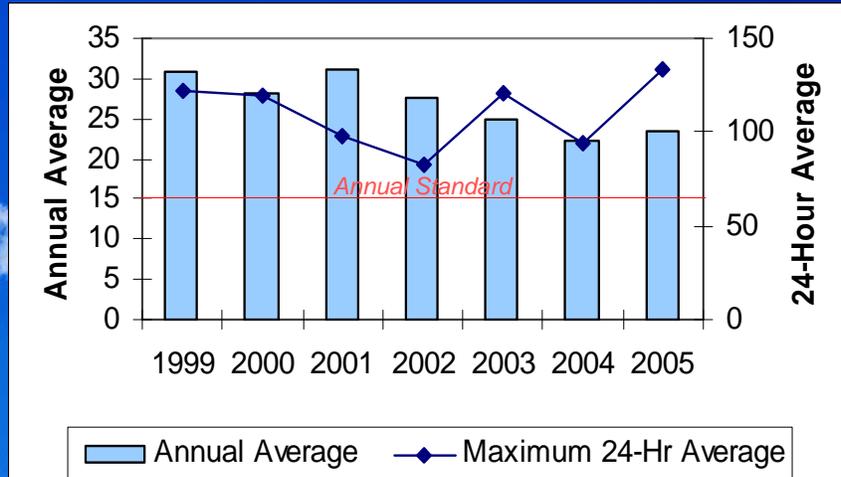
Trend of Basin 1-Hour Ozone



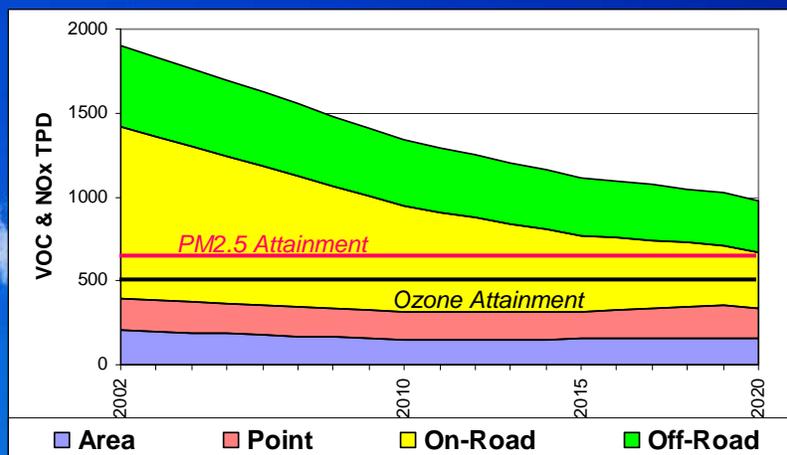
Trend of Basin 8-Hour Ozone



Trend of Basin PM2.5 (ug/m3)



Trend of Emissions: 2002–2020

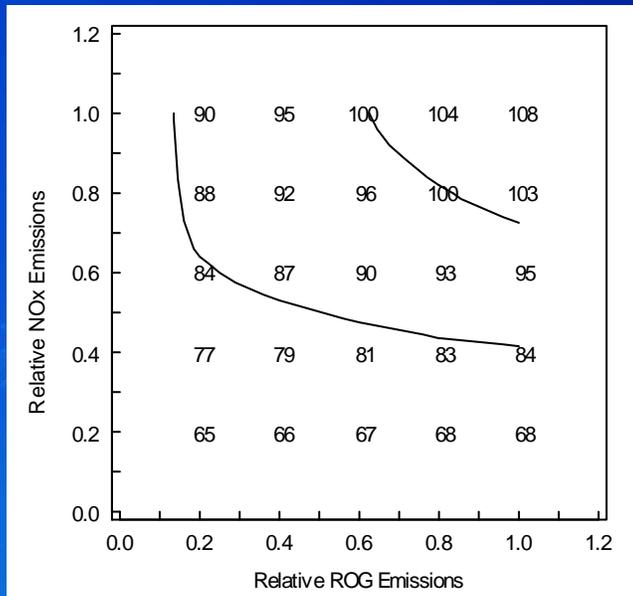


Additional Emissions Reductions Needed *

Period	Percentage Reductions (from baseline)	Total NOx & VOC Reductions (TPD)
2010-2015	~ 46%	500
2010-2021	~ 56%	550

* Beyond current regulatory programs

2020 Baseline Emissions



Hypothetical Case Current BACT on Everything

- Goal = ~500 tpd VOC + NO_x
- BACT = ~480 tpd VOC + NO_x

Key Issues

- Adequate short-term measures
- Agency responsibility
- Ethanol permeation
- HDT in-use performance
- Goods movement assumptions
- SIP credits for public funding programs
- Accelerated fleet replacement
- “Bump-up” request

Pollution Control Tools to Consider

- Pollution Prevention
- Command and Control
- Market Incentives
- Public Funding

Panel Sessions

- Brief staff overview
- Experts' responses to questions provided in advance
- Open brainstorming session
- Public comment/contribution



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**Control
Strategy
CHALLENGE!**



Clean air is everybody's business