

A topographic map of California, showing the state's outline and internal terrain features. The map uses a color gradient from green (low elevation) to brown and tan (high elevation) to represent elevation. Major mountain ranges and valleys are visible.

# California State Implementation Plans for Federal 8-Hour Ozone



Public Meeting  
October 26, 2005

# New Federal 8-Hour Ozone Standard vs. The State 1-Hour Standard

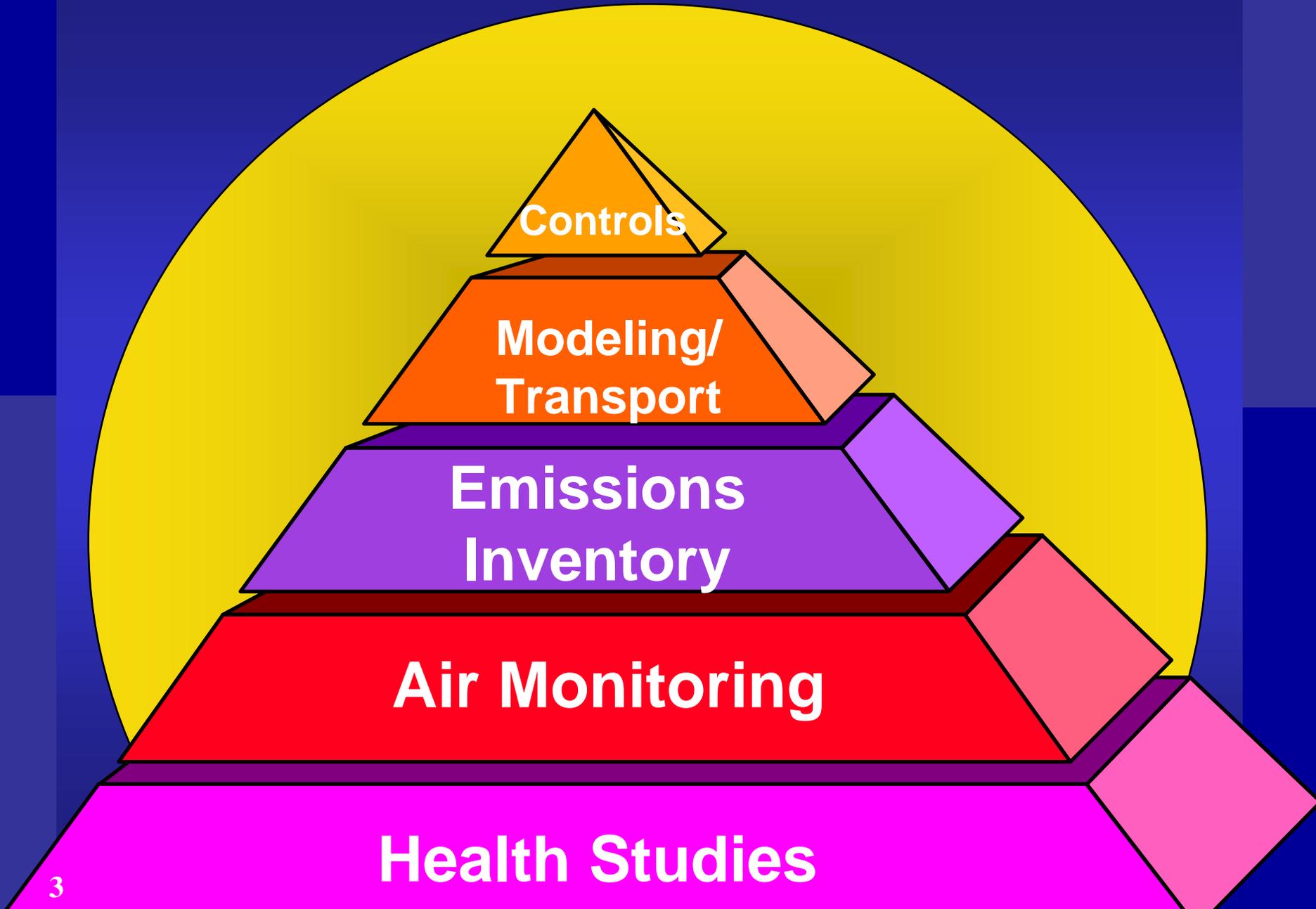
## State 1-Hour Standard (0.09 ppm)

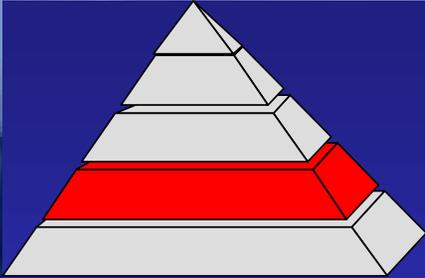
- Requirements in California Clean Air Act
- State determines health protective level
- District develops the State ozone strategy for ARB approval

## Federal 8-Hour Standard (0.08 ppm)

- Requirements in Federal Clean Air Act
- U.S. EPA determines health protective level
- District and State develop Plan for U.S. EPA approval

# Clean Air Plan for the Federal Standard

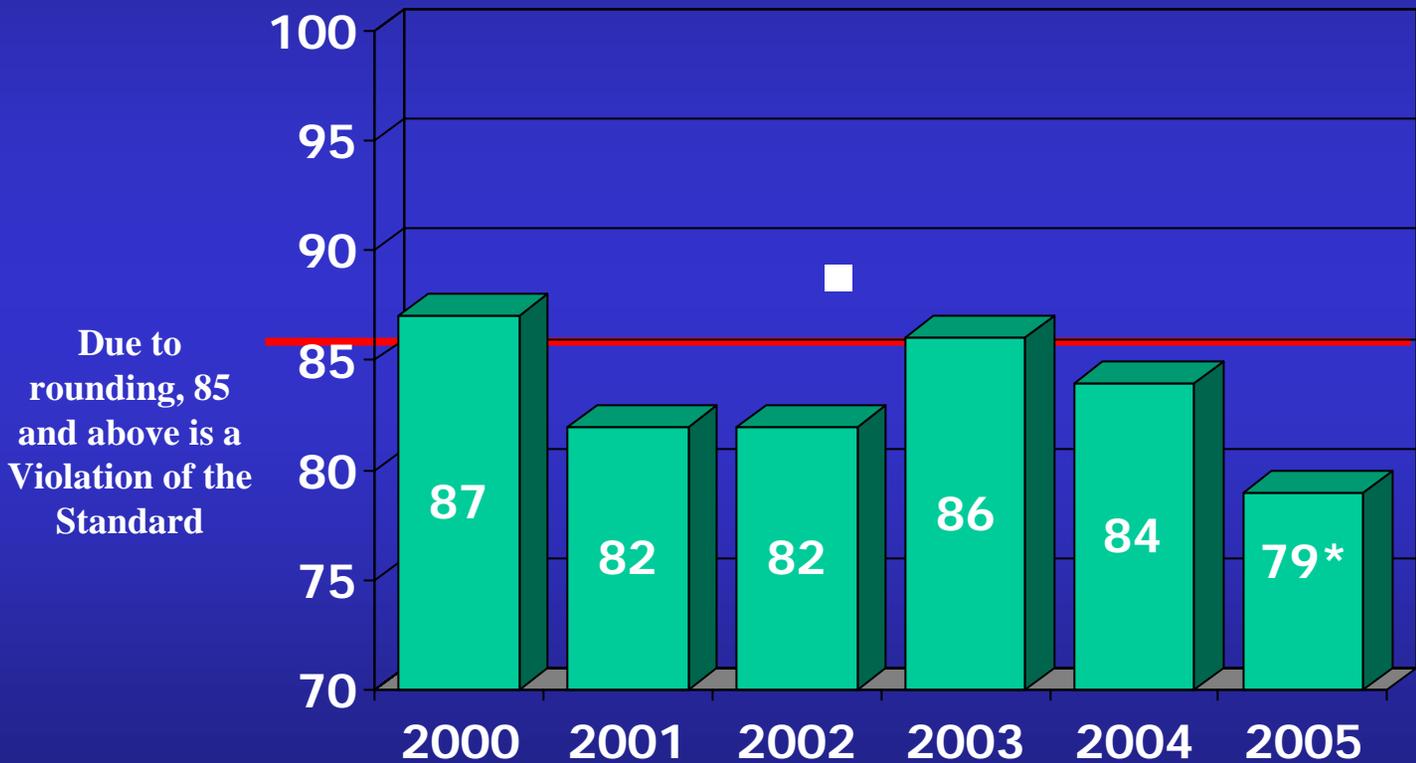




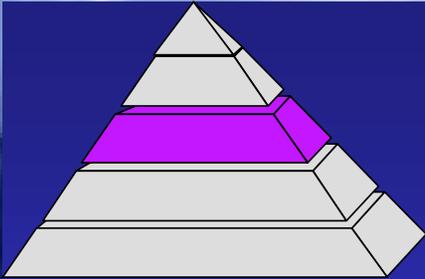
# Air Quality Monitoring

- ◆ Measures air pollution levels
- ◆ Characterizes and tracks changes in air quality
  -
- ◆ Establishes attainment status of an air basin for different pollutants, e.g. ozone and PM<sub>2.5</sub>

# 3-Year Average 8-Hour Ozone Levels in the Bay Area (Parts Per Billion)

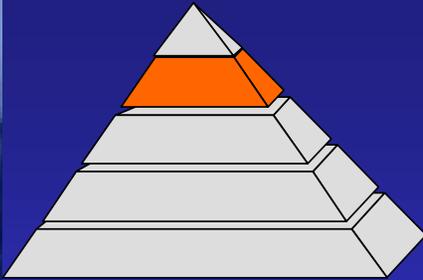


\*preliminary data



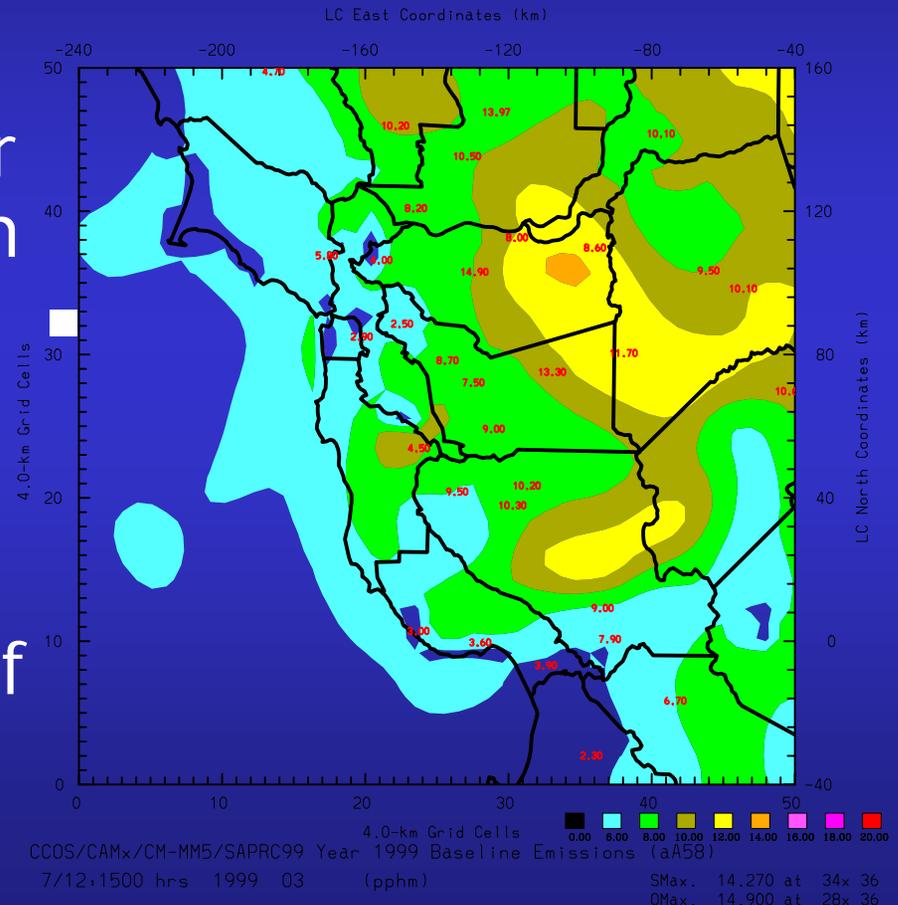
## Role of the Emissions Inventory in the SIP

- ◆ Identifies sources of pollution
- ◆ Identifies pollutants of concern
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- ◆ Estimates “base year” & forecast years
- ◆ Estimates reductions from control strategies
- ◆ Provides input to air quality modeling



# Air Quality Modeling

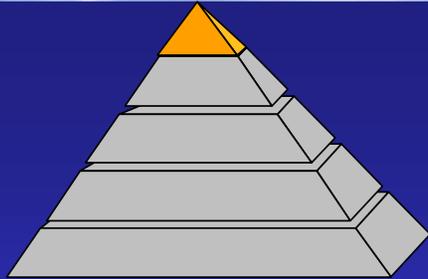
- ◆ Predicts future year air quality based on future emissions
- ◆ Shows spatial benefit of control strategies
- ◆ Assesses impacts of upwind emission reductions



# Pollution Transport

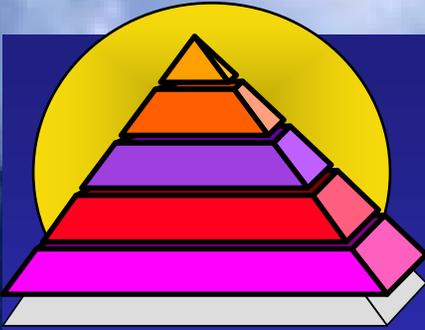


- ◆ Transport between areas is a critical factor in assessing attainment
- ◆ Multi-agency transport assessment effort underway
- ◆ Analysis goals
  - Evaluate relative contribution
  - Assess Impact of upwind/downwind controls
  - Characterize frequency and strength



# Control Assessment

- ◆ Existing program provides significant benefit
- ◆ Identify and develop new initiatives as needed
  - Mobile sources (State and Federal)
  - Fuels/re-fueling (State)
  - Consumer products and solvents (State)
  - Stationary sources (Local districts)



# Planning Milestones

Update and validate emissions inventory	2005
Air quality modeling ■	2005-2006
Transport analysis	Early 2006
Draft plans for public review	Fall of 2006
Local and State plan adoption	Early 2007
Ozone plans to U.S. EPA	June 2007

# Your Participation is Important

- ◆ Public has opportunities to provide comments and help to shape the outcome
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- ◆ ARB, U.S. EPA, Bay Area district, ABAG, and MTC all have a public process and invite your participation

For more information on federal 8-hour  
ozone plans, visit:

[www.arb.ca.gov/planning/sip/ncozsips07/  
ncozsips07.htm](http://www.arb.ca.gov/planning/sip/ncozsips07/ncozsips07.htm)



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