Overview

- **Federal**
  Environmental Protection Agency (EPA)

- **State**
  Air Resources Board (ARB)

- **Local**
  Air Pollution Control Districts (APCDs)

Line of Authority

- U.S. Environmental Protection Agency (EPA)
  - Federal Clean Air Act and its amendments (CAA)
  - Code of Federal Regulations (CFR)
- Air Resources Board (ARB)
  - California Clean Air Act (CCAA)
  - Health and Safety Code (H&SC)
  - Code of California Regulation (CCR)
- Air Pollution Control Districts (APCDs)
  - Rules and Regulations

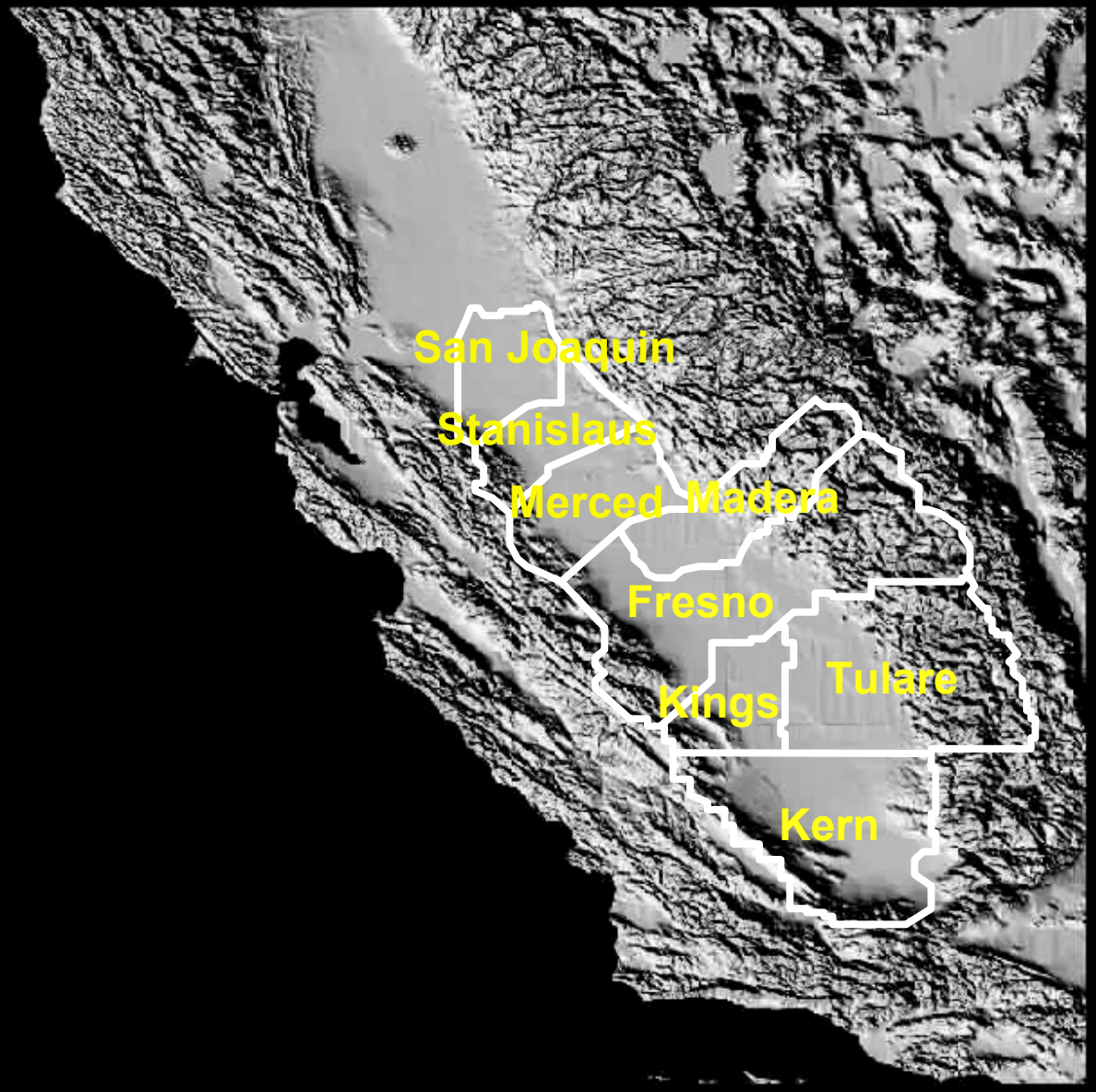
Responsibility

- EPA
  - National Ambient Air Quality Standards (NAAQS)
  - Requires State Implementation Plans (SIPs)
  - Regulations of national significance
- ARB
  - California Ambient Air Quality Standards (CAAQS)
  - Evaluates District plans
  - Submits Statewide Implementation Plans (SIPs)
  - Regulations of state significance
- APCDs
  - Regulate stationary & area sources
  - Attainment planning

State And Federal Mandates

- California Clean Air Act
  - Air Quality Attainment Plans
- Air Toxic Hot Spots Act
- Air Toxic Control Measures
- Federal Clean Air Act
  - Ozone Plans
  - PM-10 Plans
  - Carbon Monoxide Plan
  - Title III Air Toxics
  - Title V Operating Permits

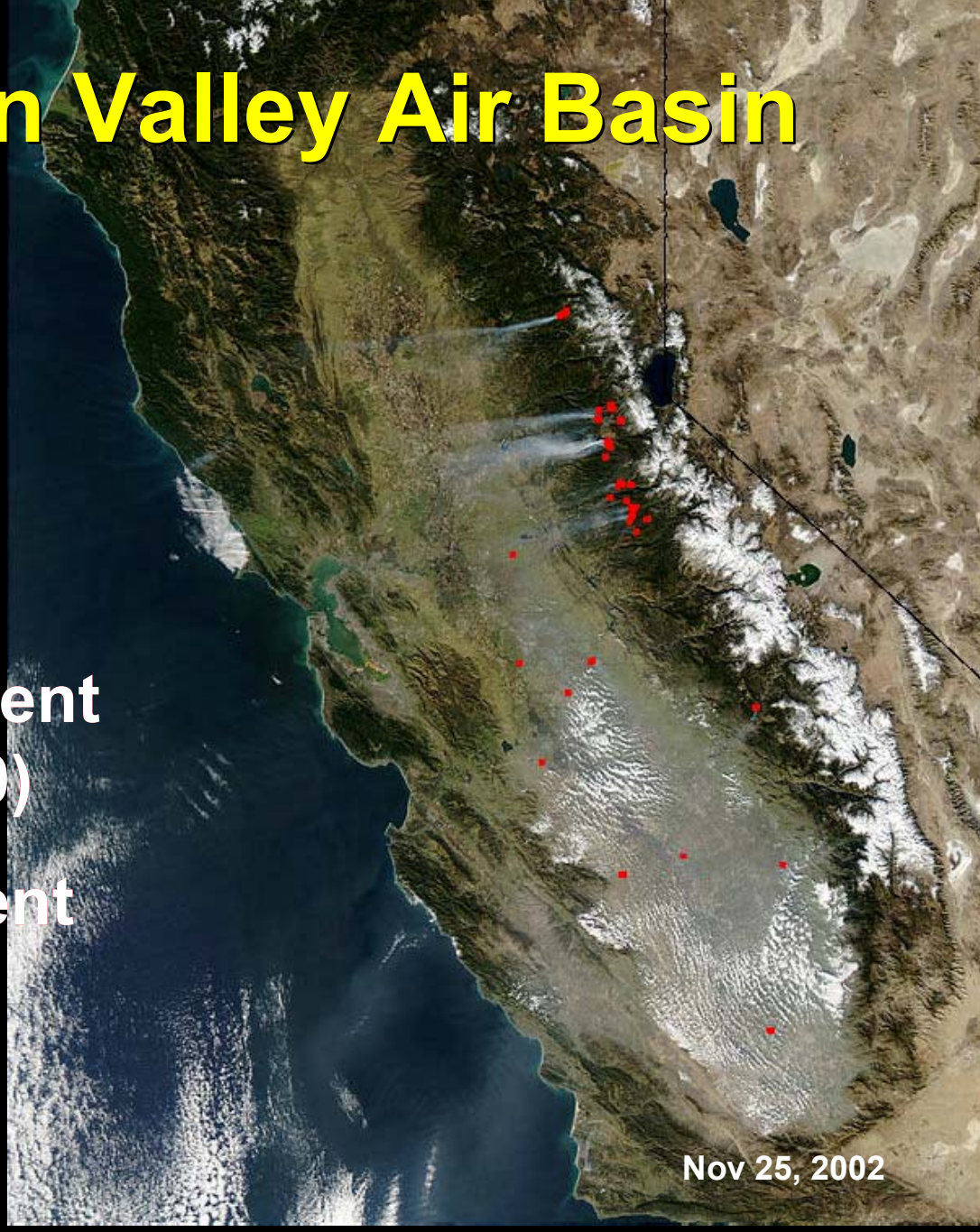
San Joaquin Valley Air Basin



San Joaquin Valley Air Basin

Serious Non-attainment for Particulate (PM10)

San Joaquin Valley Air Basin



Serious Non-attainment for Particulate (PM10)

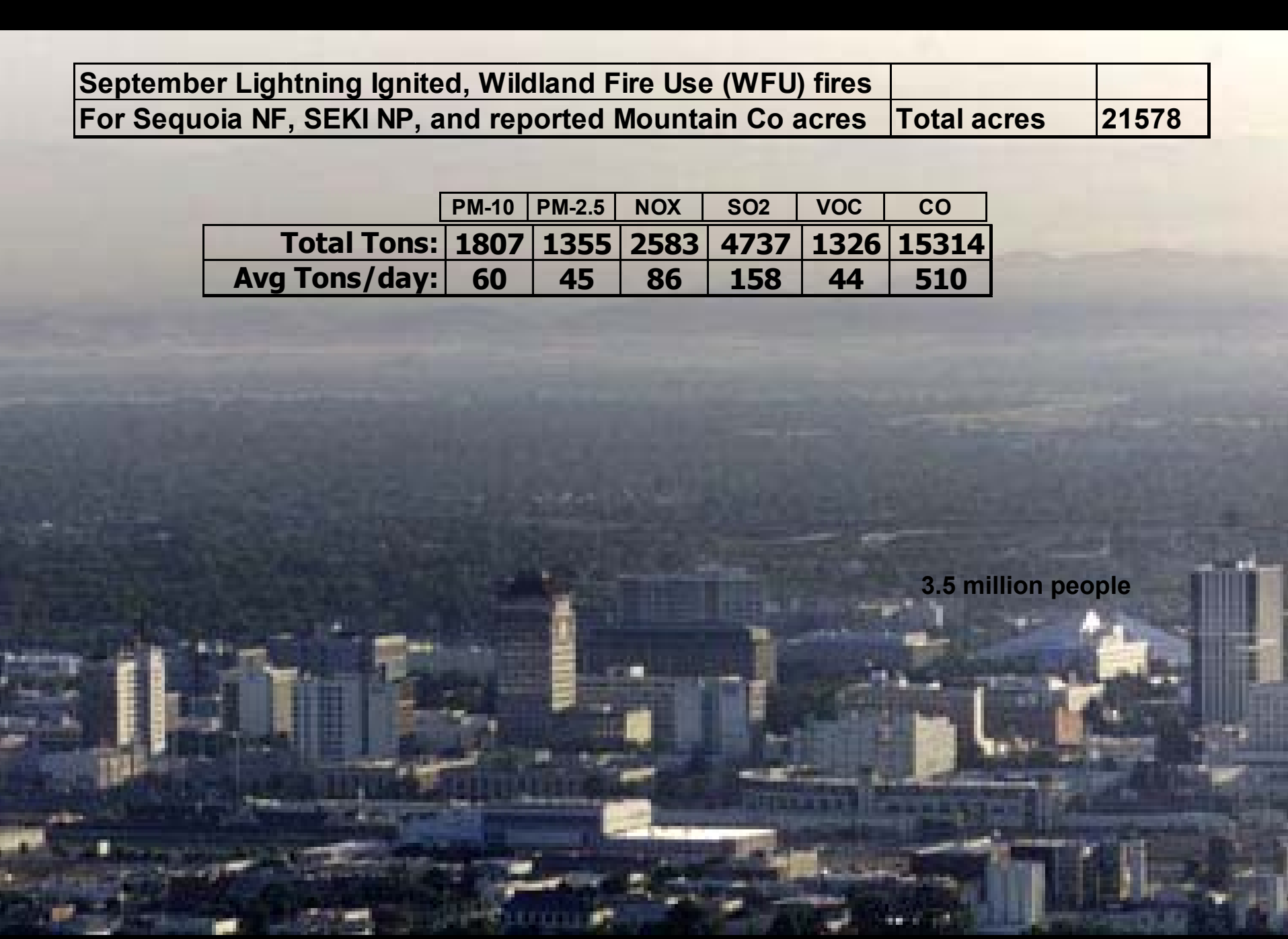
Severe Non-attainment for Ozone (O_3) soon extreme ?

Major Changes to T17

- "New" focus on smoke management
- Addition of specific Rx burn requirements

September Lightning Ignited, Wildland Fire Use (WFU) fires		
For Sequoia NF, SEKI NP, and reported Mountain Co acres	Total acres	21578

	PM-10	PM-2.5	NOX	SO2	VOC	CO
Total Tons:	1807	1355	2583	4737	1326	15314
Avg Tons/day:	60	45	86	158	44	510



South View from Moro Rock
Across the Middle Fork of the Kaweah
Castle Rocks
Paradise 2 fires

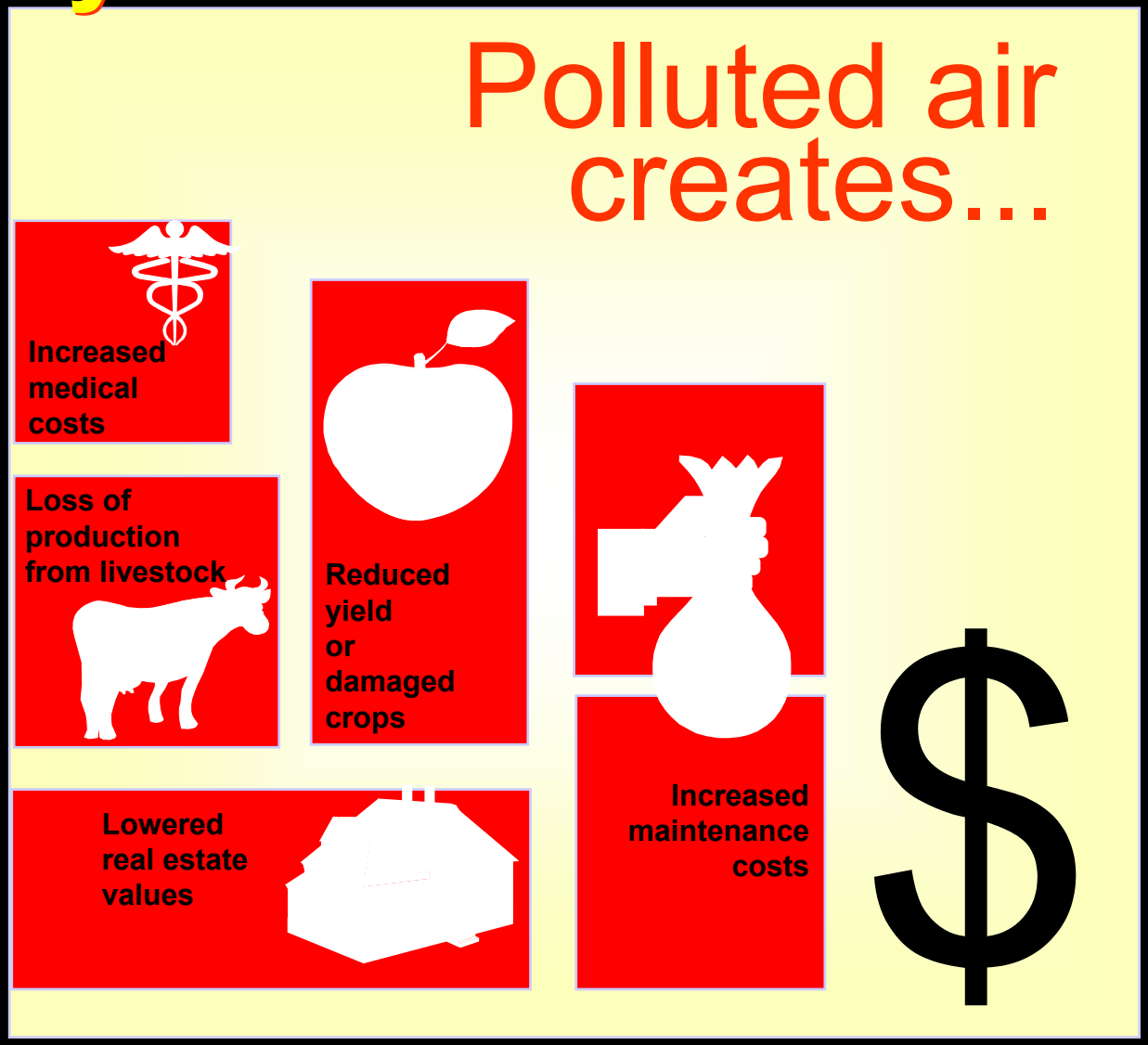
South/Southwest View from Moro Rock
Across the Middle Fork of the Kaweah
Paradise 2 fires
Milk Ranch Peak

Southwest View from Moro Rock
Down the Middle Fork of the Kaweah
Inversion layer
Milk Ranch Peak
Kaweah Middle Fork Toward Three Rivers

Daily Burn Authorization System

- Require Considerations:
  - Existing air quality
  - Meteorological conditions
  - The type & amount of material
  - Location and timing
  - Proximity to smoke sensitive areas
  - Cumulative smoke impacts

The Economics Of Air Quality



New England Journal Of Medicine

Fine Particulate Air Pollution and Mortality in 20 U.S. Cities, 1987–1994
Volume 343:1742-1749 December 14, 2000 Number 24

- "Results: After taking into account potential confounding by other pollutants, we found consistent evidence that the level of PM10 is associated with the rate of death from all causes and from cardiovascular and respiratory illnesses."
- "The estimated increase in the relative rate of death from all causes was 0.51 percent (95 percent posterior interval, 0.07 to 0.93 percent) for each increase in the PM10 level of 10 µg per cubic meter."

Cont. New England Journal Of Medicine

Fine Particulate Air Pollution and Mortality in 20 U.S. Cities, 1987–1994
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Conclusions There is consistent evidence that the levels of fine particulate matter in the air are associated with the risk of death from all causes and from cardiovascular and respiratory illnesses. These findings strengthen the rationale for controlling the levels of respirable particles in outdoor air.

Asthma

- From 1990-1997, 5,000 Californians died from asthma.
- Over 50,000 Californians are hospitalized annually to treat asthma. 12,000 people were from the San Joaquin Valley, of which 5,000 were children.