

Health Update: Health Impacts of Air Pollution in the San Joaquin Valley

December 7, 2006

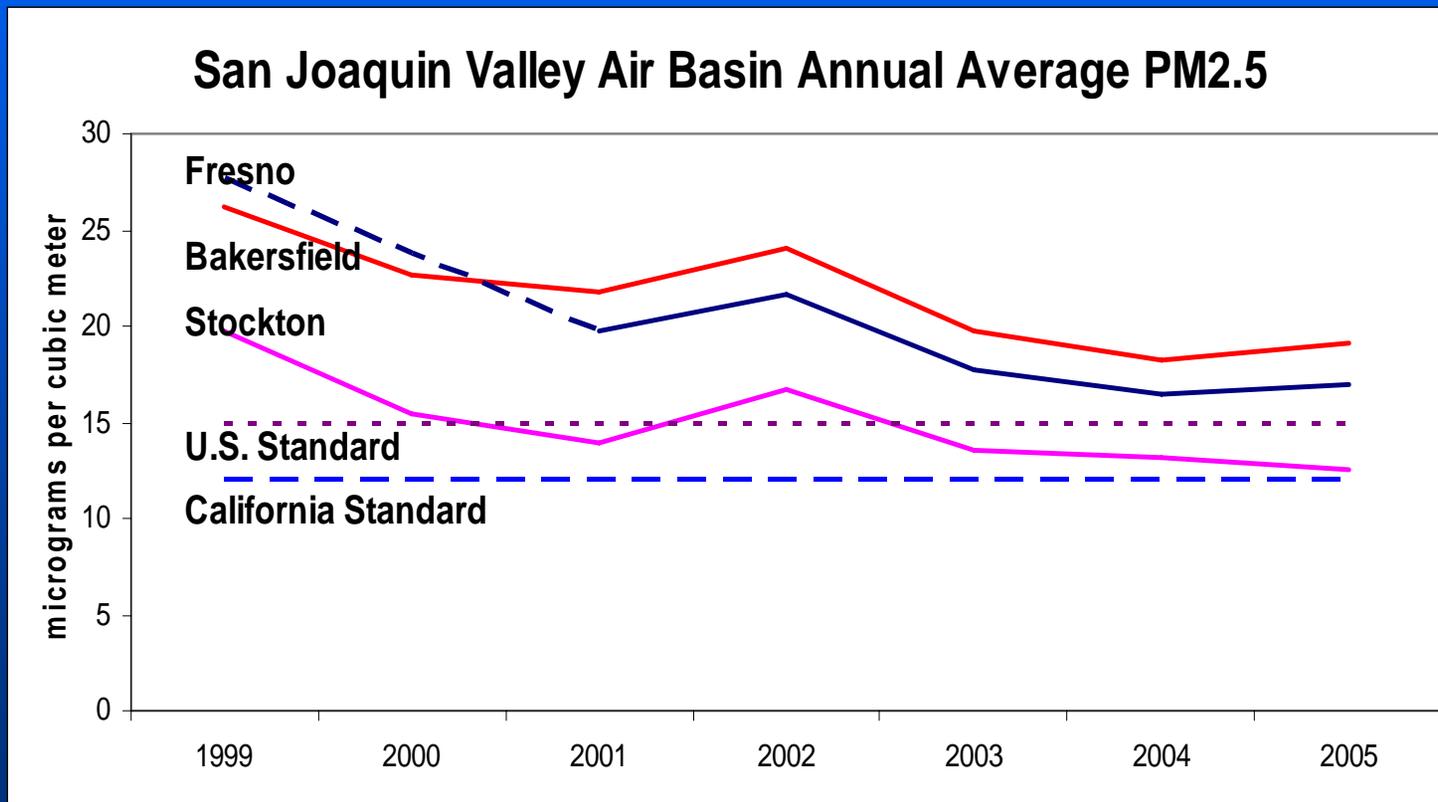


California Air Resources Board

California Environmental Protection Agency

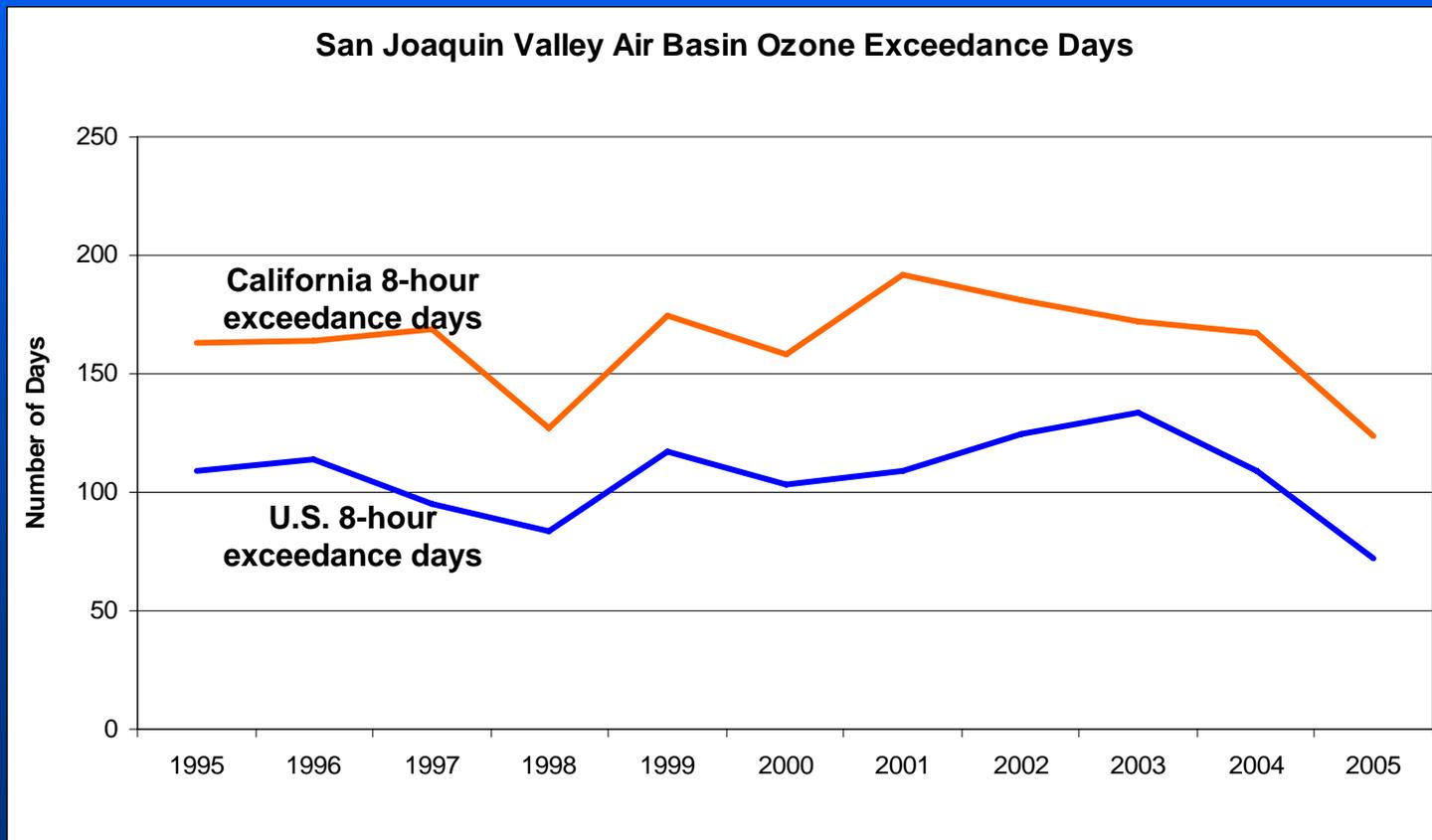
Why Are We Concerned?

PM2.5 levels exceed the standards



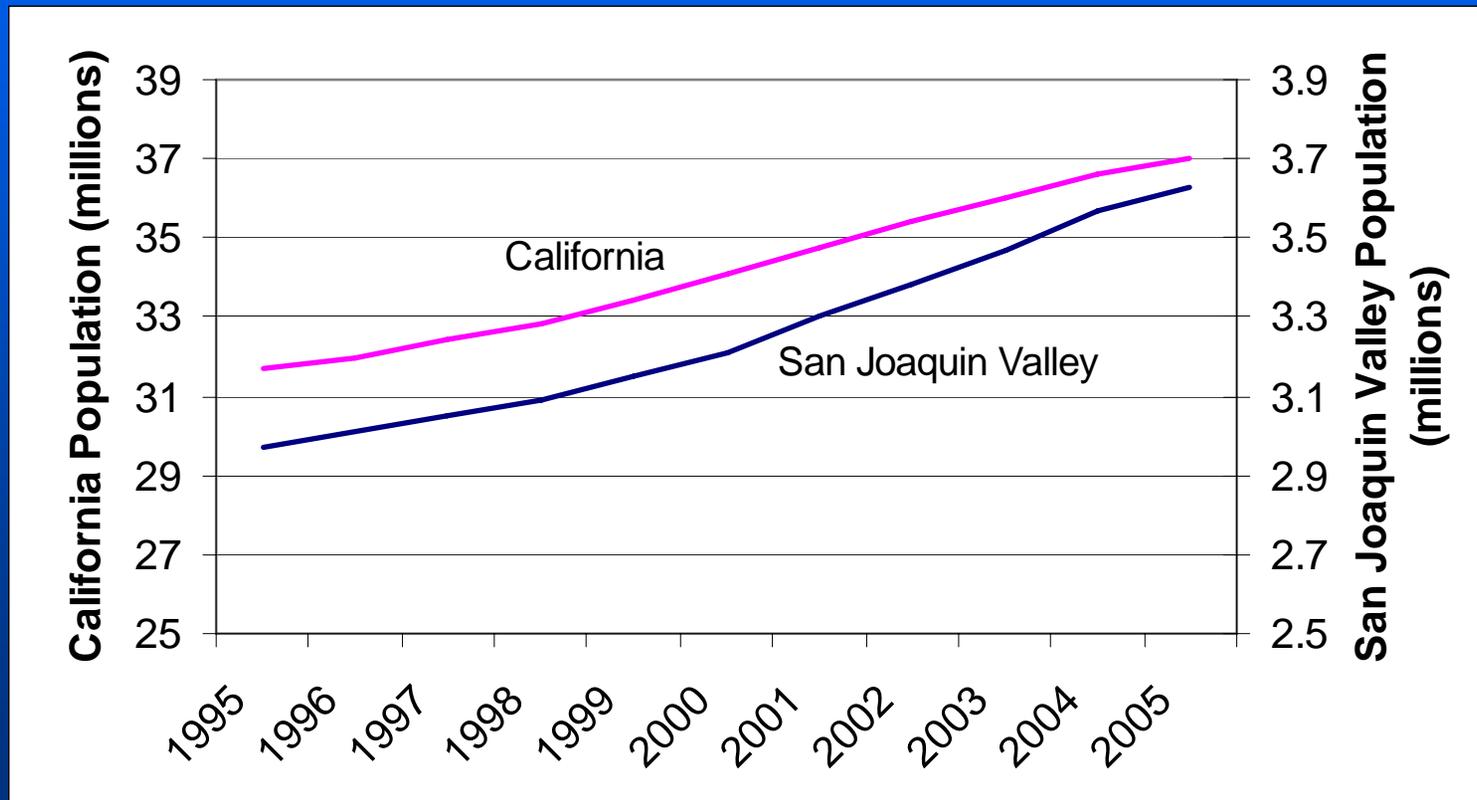
Why Are We Concerned?

Ozone levels exceed the standards



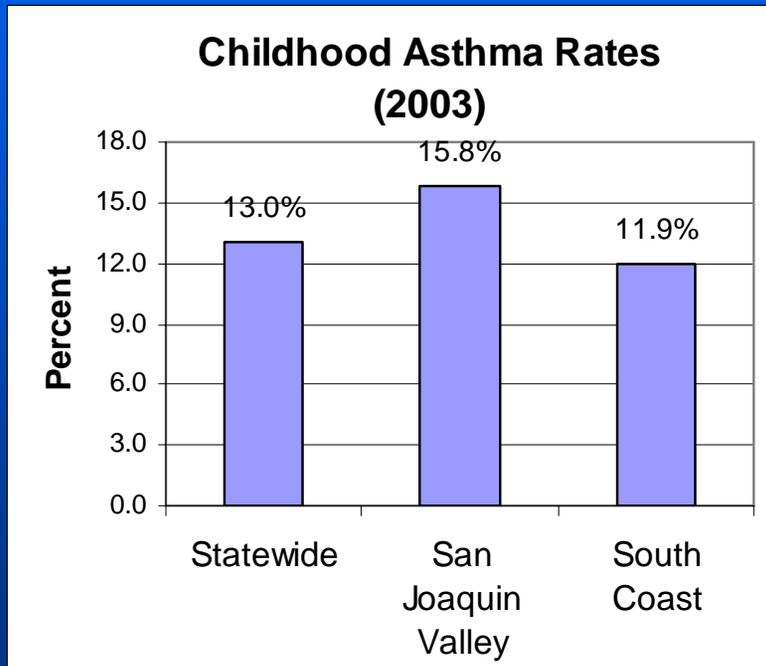
Why Are We Concerned?

Increasing population impacted

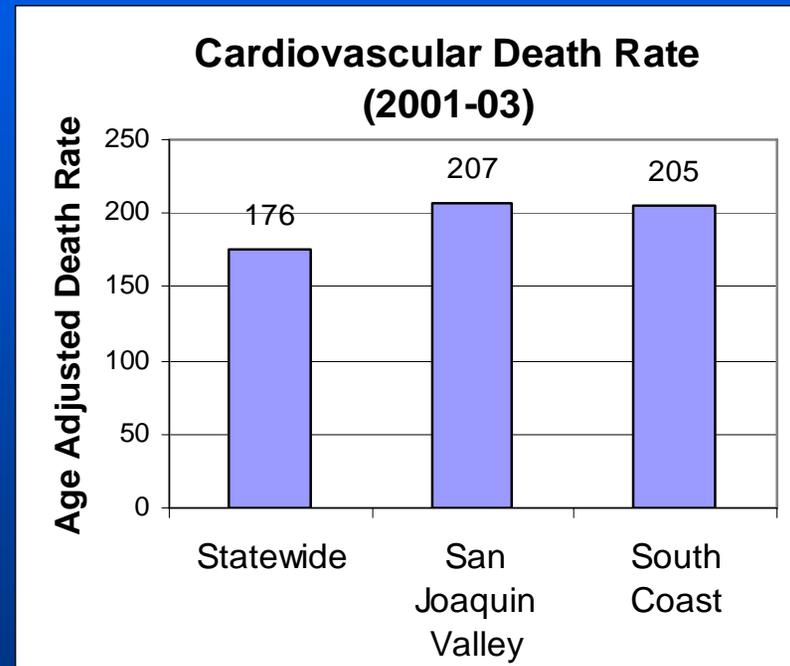


Why Are We Concerned?

High incidence of health impacts



Source: California Health Interview Survey



Source: California Department of Health Services

Health Benefits of Meeting the State Ambient Air Quality Standards

	Combined PM and Ozone Health Effects*	
	SJV	Statewide
Mortality	1400	8800
Hospital Admissions	1200	7700
School Absences	880,000	4,700,000
Work Loss Days	200,000	1,400,000

* Uncertainty of about 50%, based on 1999 – 2000 air quality

Completed Studies

- UC Davis study - Up to 33% higher heart attack rates in Valley
- ARB Kaiser study - Increased respiratory hospitalization and emergency room visits
- UC Davis study - Airway changes in young Hispanic males
- UC Davis study - Respiratory effects of PM in rats
- CSU Fullerton study - Up to \$3 Billion health impact of PM2.5 and ozone

Ongoing and Future Studies

- San Joaquin Valley Health Effects Research Center – UC Davis
 - PM Research Center
 - Will investigate the mechanistic links between ambient particles and health effects
- Fresno Asthmatic Children's Environment Study (FACES)
- PM source and toxicity apportionment

Conclusions and Implications

- Reduction of particulate and ozone pollution is of great importance to the health of the San Joaquin Valley population
- Ongoing and future studies will further define the pollution effects