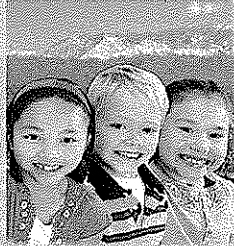


2007 OZONE PLAN



REVISED PROPOSED - APRIL 30, 2007



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

The District's 2007 Ozone Plan

Syed Sadredin

Air Pollution Control Officer

June 14, 2007

San Joaquin Valley

Air Pollution Control District

Why does it matter to all of us?

- **Health impacts, each year**
 - 460 premature deaths
 - 325 new cases of chronic bronchitis
 - 3,230 cases of acute bronchitis in children
 - 260 hospital admissions
 - 23,300 asthma attacks
 - 188,000 lost school days
 - 3,000 lost work days
- **\$3 billion/year in health related costs**



Challenges in Controlling Ozone

Topography –
Pollution is
constrained by
surrounding
mountains

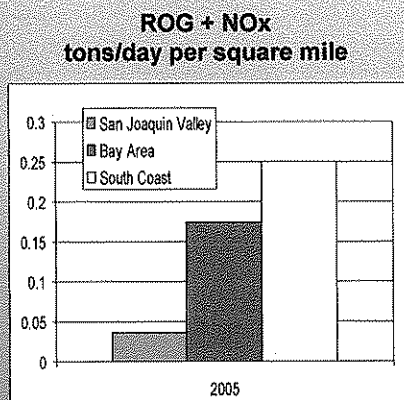
Other challenges:
meteorology,
population growth



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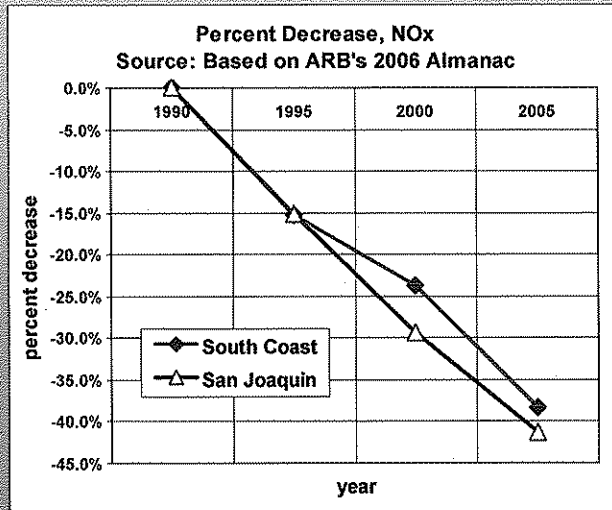
Effects of natural environment

- **SJV emissions per unit area (emissions density) much less than SF or LA**



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Ozone Precursor Reductions



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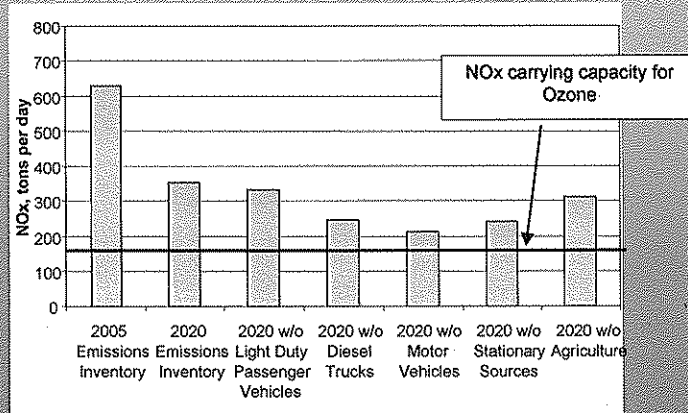
Air Quality Progress to Date

- 80% reduction in stationary source emissions since 1980
- 80% reduction in number of 1-hour ozone exceedances since 1980
- Attainment for PM₁₀
- PM_{2.5}
 - Attainment of 24-hour standard set in 1997
 - Annual average has decreased significantly
- 8-hour ozone levels have dropped significantly throughout the Valley

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Challenges in Controlling Ozone

There is no silver bullet.



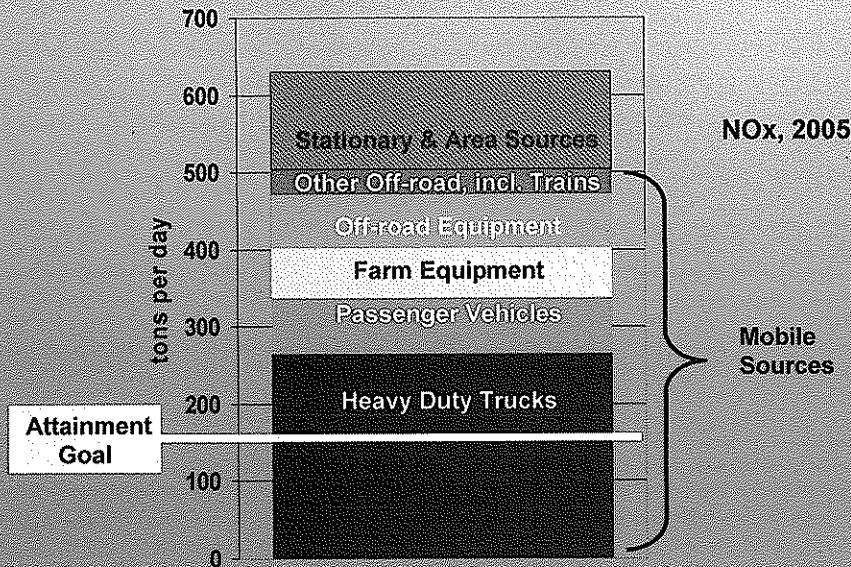
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No Constraints Analysis

NOx	2012	2017	2020	2023	
Reductions Needed from 2005	464	464	464	464	
From District Plan	-163	-270	-311	-337	
Additional Needed	301	194	153	127	
Heavy duty trucks	-139	-62	-33	-16	Replace 134,000 trucks
Cars & light trucks	-15	-9	-7	-3	Replace 2.6M cars
Construction/Mining	-36	-24	-19	-16	Upgrade with cleanest tier
Farm Tractors	-24	-15	-10	-5	Upgrade to tier 3, then tier 4
Locomotives	-16	-16	-16	-16	Repower with Tier 3
All Other	-21	-12	-10	-8	
All Reductions	-250	-137	-94	-64	
Shortfall	51	58	59	63	

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Attainment Depends on Reductions from Mobile Sources



What does this plan call for?

- Reduces NOx emissions 75% from 2005 levels
- New local measures in place by 2010
- Compliance will cost businesses \$20 billion
- \$200 million a year in incentive funds
- Most expeditious path to attainment
 - At least 50% in attainment by 2015
 - At least 90% in attainment by 2020
 - Attainment for all Valley residents no later than 2023
- PM2.5 attainment is also advanced by the *2007 Ozone Plan*

Dual Path Strategy

Strategy to reach attainment as early as possible

- **Timely plan to meet legal obligations**
- **Do everything to beat the SIP deadline (Fast Track)**
 - **Pressure ARB and EPA for aggressive regulations**
 - **Incentive funding**
 - **Innovative Fast Track measures**

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Fast Track Measures

- **Green Contracting**
- **Green Fleets**
- **Truck Replacement/Retrofit/Repower**
- **Short Sea Shipping**
- **Inland Ports**
- **High-Speed Rail**
- **Alternative Energy**
- **Energy Conservation**
- **Heat Island Mitigation**
- **Episodic/Regional Controls**

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Recommendations

- 1. Adopt the District's *2007 Ozone Plan***
- 2. Pursue aggressive regulations**
- 3. Use objective, need-based analysis to ensure that the Valley receives its fair share of Proposition 1B funding**
- 4. Review Moyer Guidelines to allow more flexibility to achieve the most cost-effective reductions**