

# **RATE OF PROGRESS**

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# What is a Rate of Progress (ROP) Plan?



- Shows downward trends in emissions of ozone precursors over time
- Trends must meet reductions specified in Fed. Clean Air Act
  - 33% ('90-'02)
  - 42% ('90-'05)
  - 51% ('90-'08)
  - 60%('90-'10)



# Most Recent ROP Plan

- **Adopted May 2002 by Governing Board and sent to ARB**
- **Amended to include updated mobile source emissions and approved by the Governing Board December 2002**
- **EPA found Amended ROP Plan to be complete September '03; review underway**



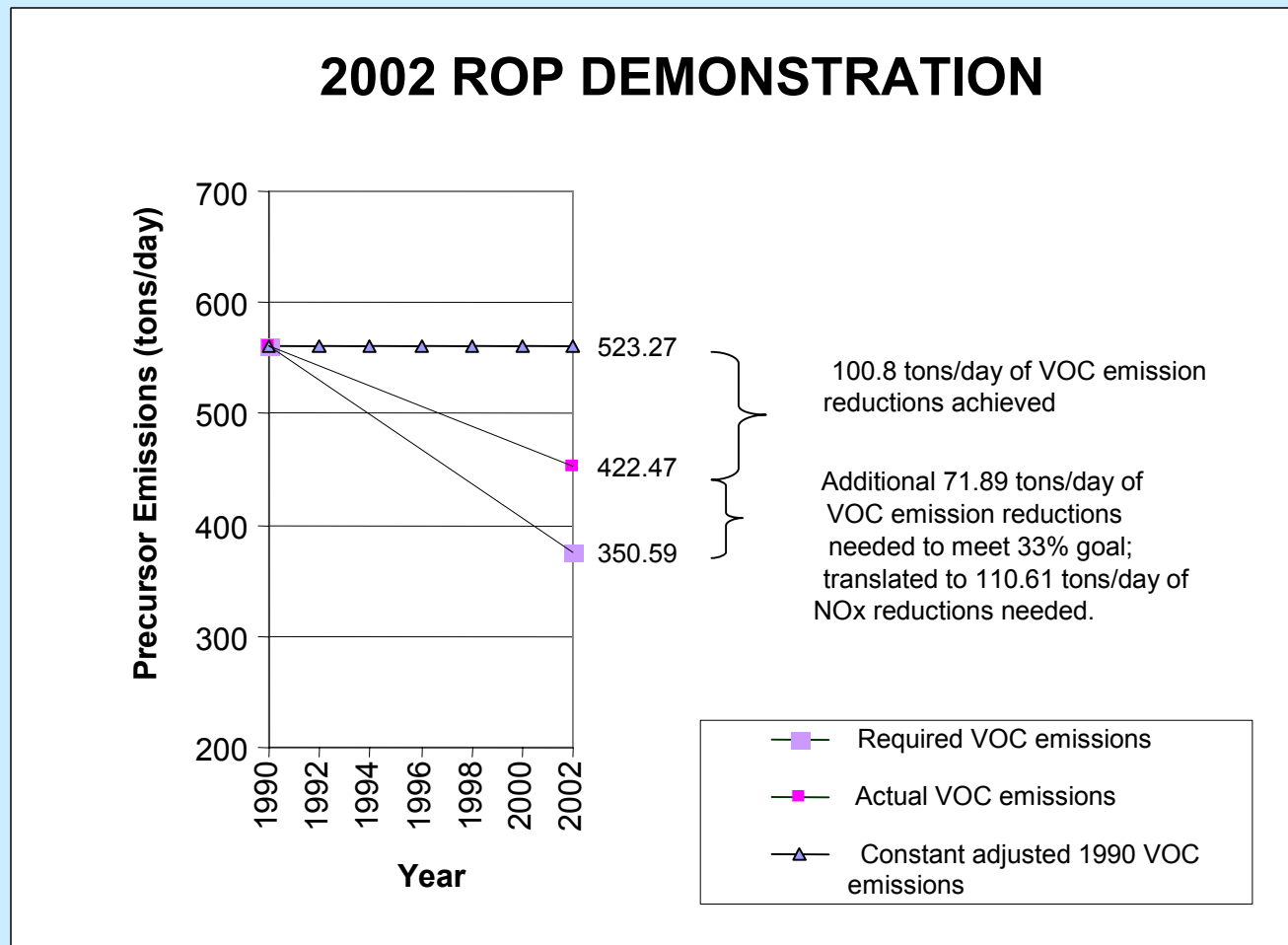
# Why redo previous calculations?



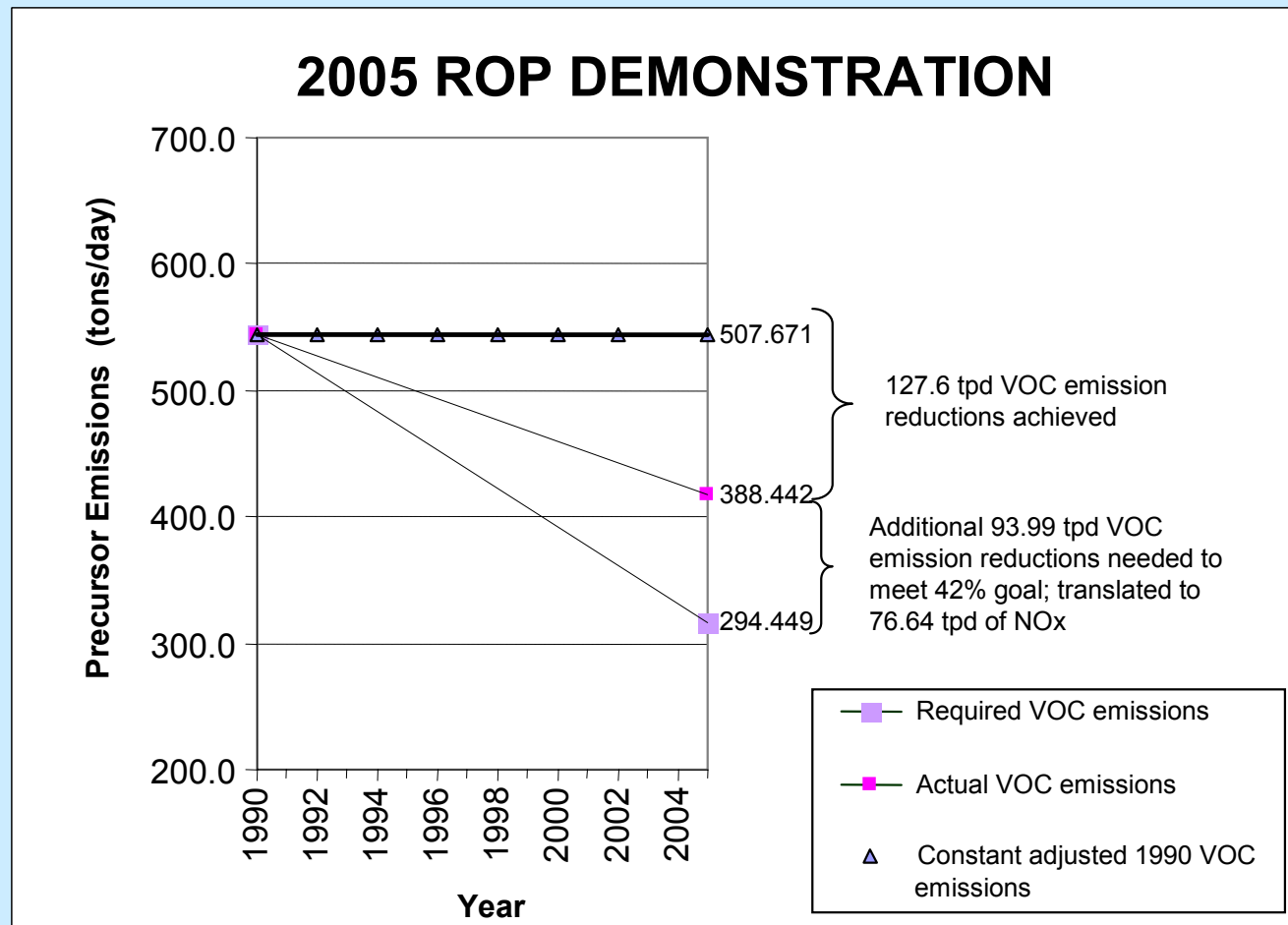
- **Prior inventory has changed due to rules, improvements, etc.**
- **Historical inventories have improved.**
- **Need to verify prior rate of progress given changes in inventory.**



# ROP Still Achieved for 2002



# ROP Still Achieved for 2005



# California Clean Air Act Triennial Progress Report



# What is the Triennial Progress Report?

- **State Requirement**
- **Emphasizes progress towards attaining state 1-hour ozone standard (0.09ppm)**
- **Presented as a chapter in the Extreme Ozone Attainment Demonstration Plan.**





# This Triennial Report covers

- **Ozone**
- **2000-2002**
- **San Joaquin Valley  
Air Basin**



# Three Indicators used to measure progress

- **Expected Peak Day Concentration (EPDC)**
- **Population Weighted Exposure (PWE)**
- **Area Weighted Exposure (AWE)**



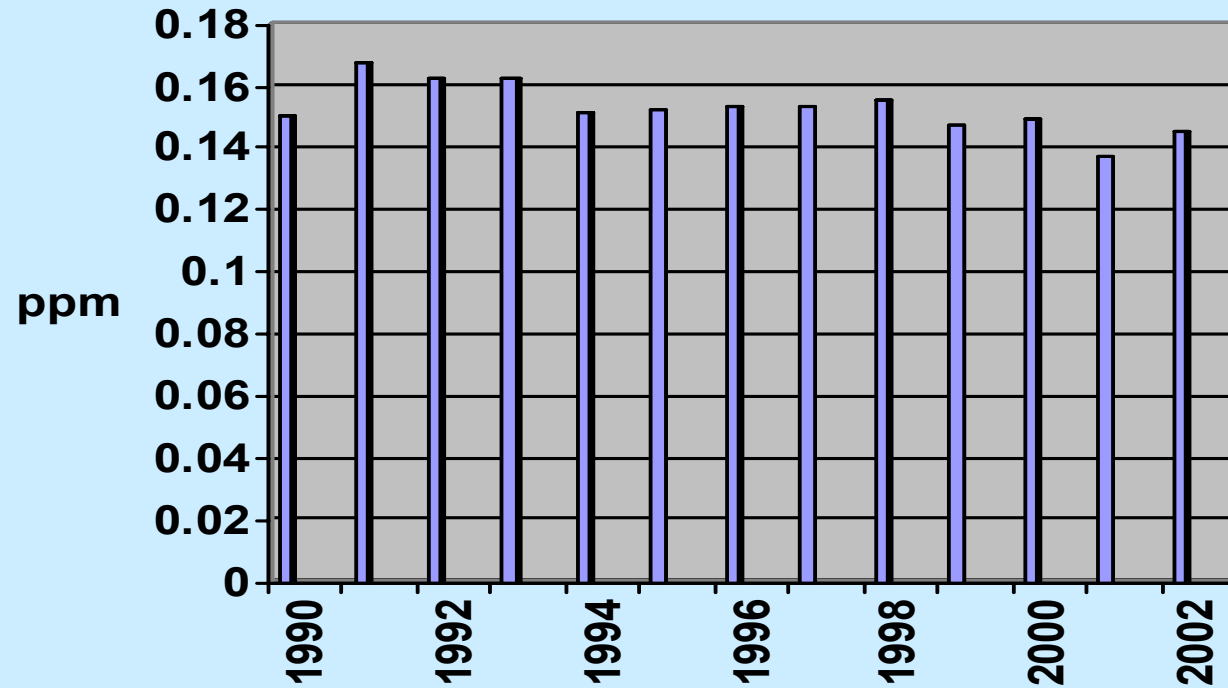
# Expected Peak Day Concentration

- Represents maximum ozone concentration expected to occur once per year in average at a given monitoring station
- The EPDC for ozone declined overall between 1990 and 2002.
- OADP will present more detailed analysis.



# EPDC Trends in SJVAB 2000-2002

Fresno -1st street

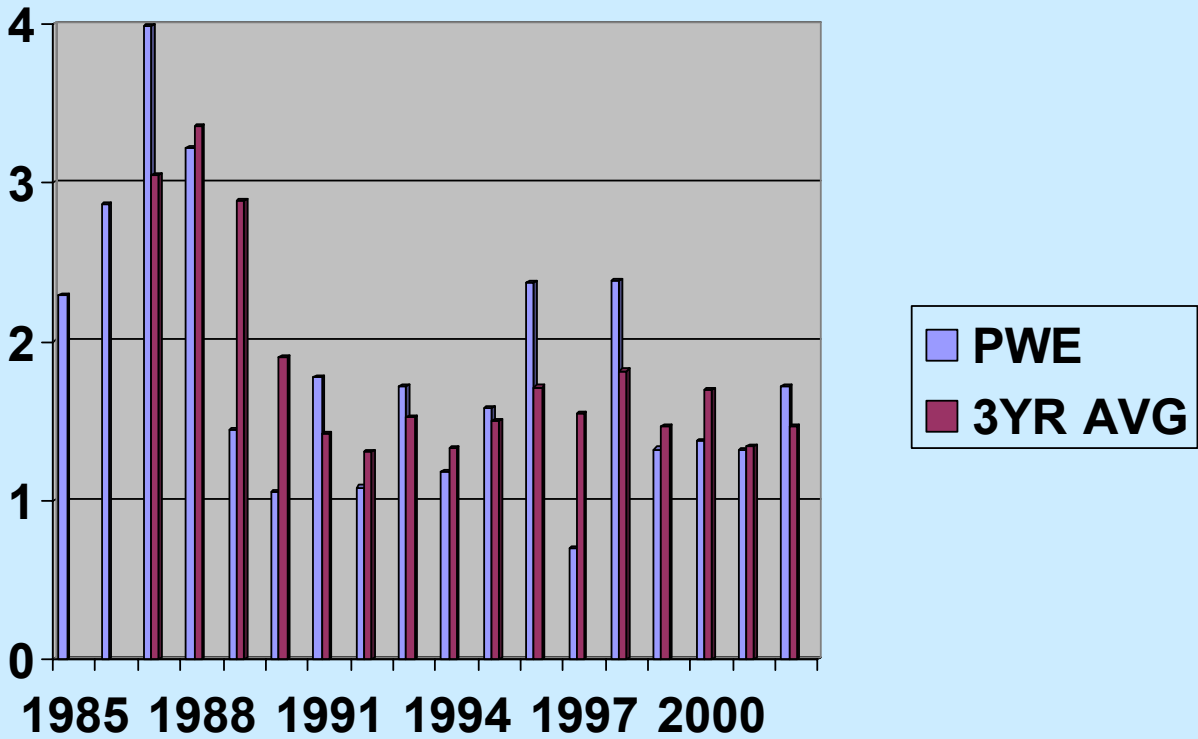


# Population Weighted Exposure (PWE)

- PWE is intended to characterize the potential average outdoor exposure per person to concentrations above the level of the state ozone standard.
- PWE has declined overall between 1988 and 2002.
- OADP will present more detailed analysis.



# PWE Trends in SJVAB 2000-2002

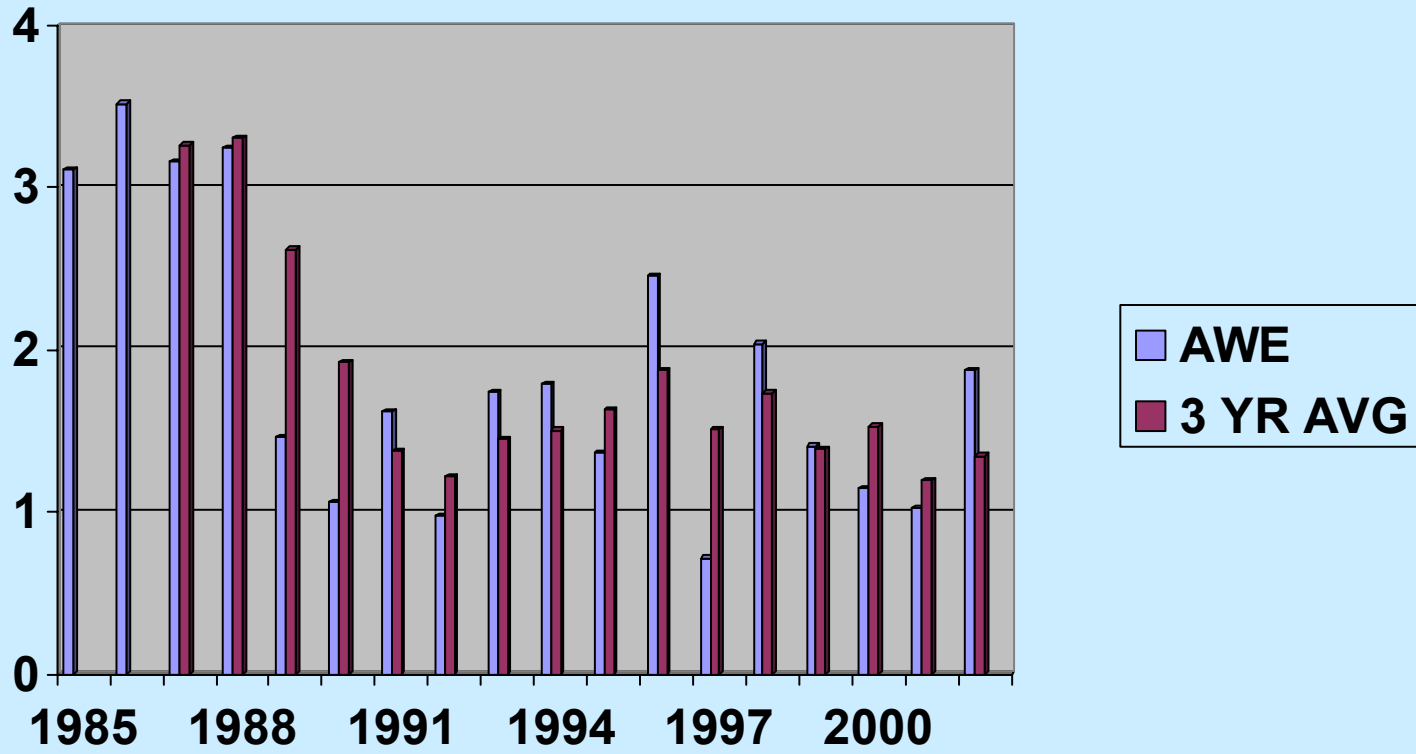


# Area Weighted Exposure

- The AWE is intended to characterize the potential average annual outdoor ozone exposure per unit area.
- The AWE has declined overall from 1988 to 2002.
- The OADP will include more detailed information.



# AWE Trends in SJVAB 2000-2002





# All Feasible Measures(AFM)

- **AFM required for all state non-attainment areas in California.**
- **District leads state development of AFM.**
- **The district participates in state-wide groups for identifying AFM.**



# SUMMARY

- **Some progress compared to base year(1988) for all indicators.**
- **Recent high ozone levels reflected in all three indicators.**
- **Shows need for continued emission controls.**
- **OADP will contain more detailed analysis**

