

Air Quality and District Programs

Highlights and Updates Looking Ahead

January 19, 2012

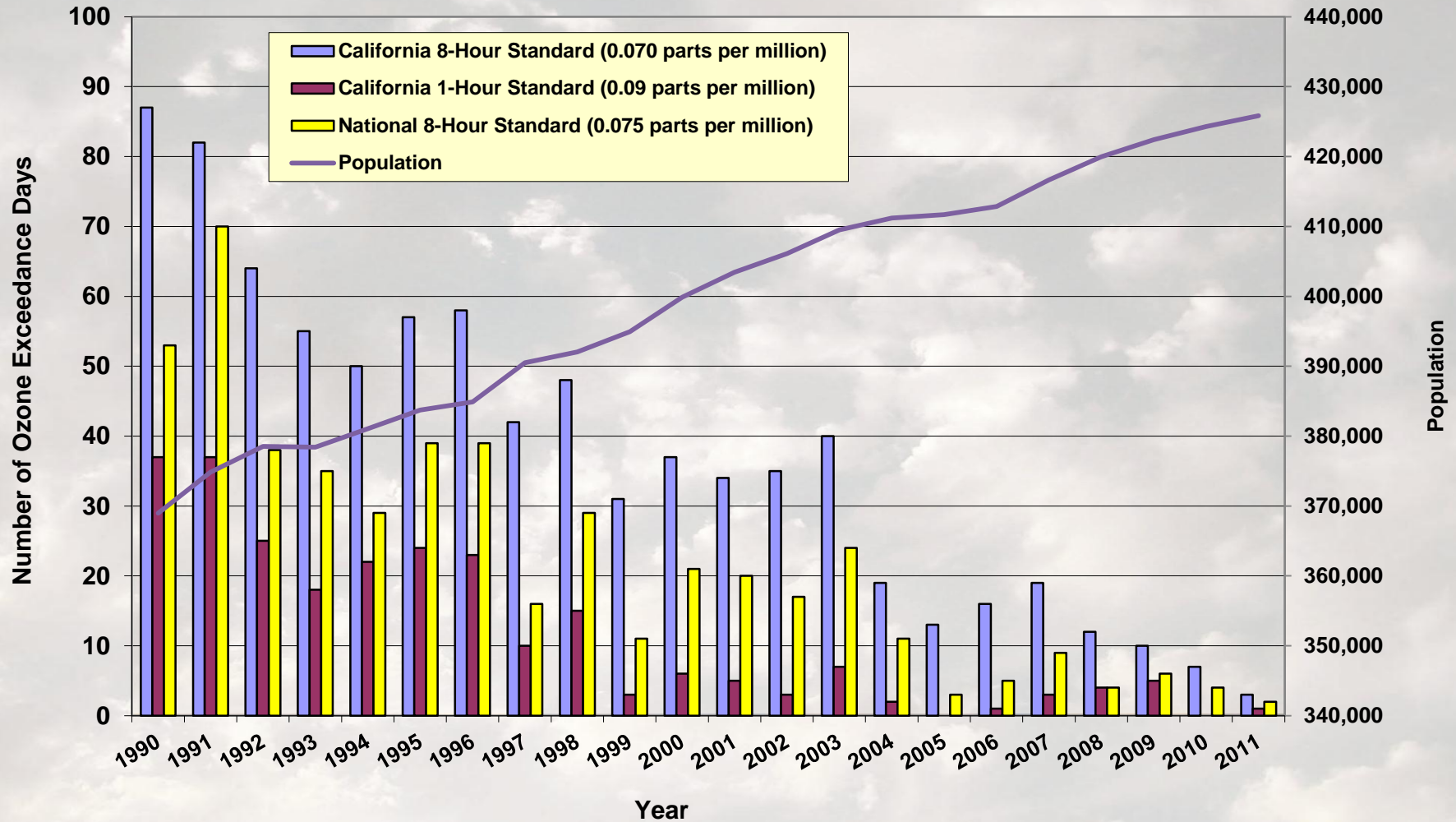
Dave Van Mullem

Air Pollution Control Officer



2011: Cleanest Year on Record for Ozone

Santa Barbara County Ozone Exceedance Days
1990 - 2011



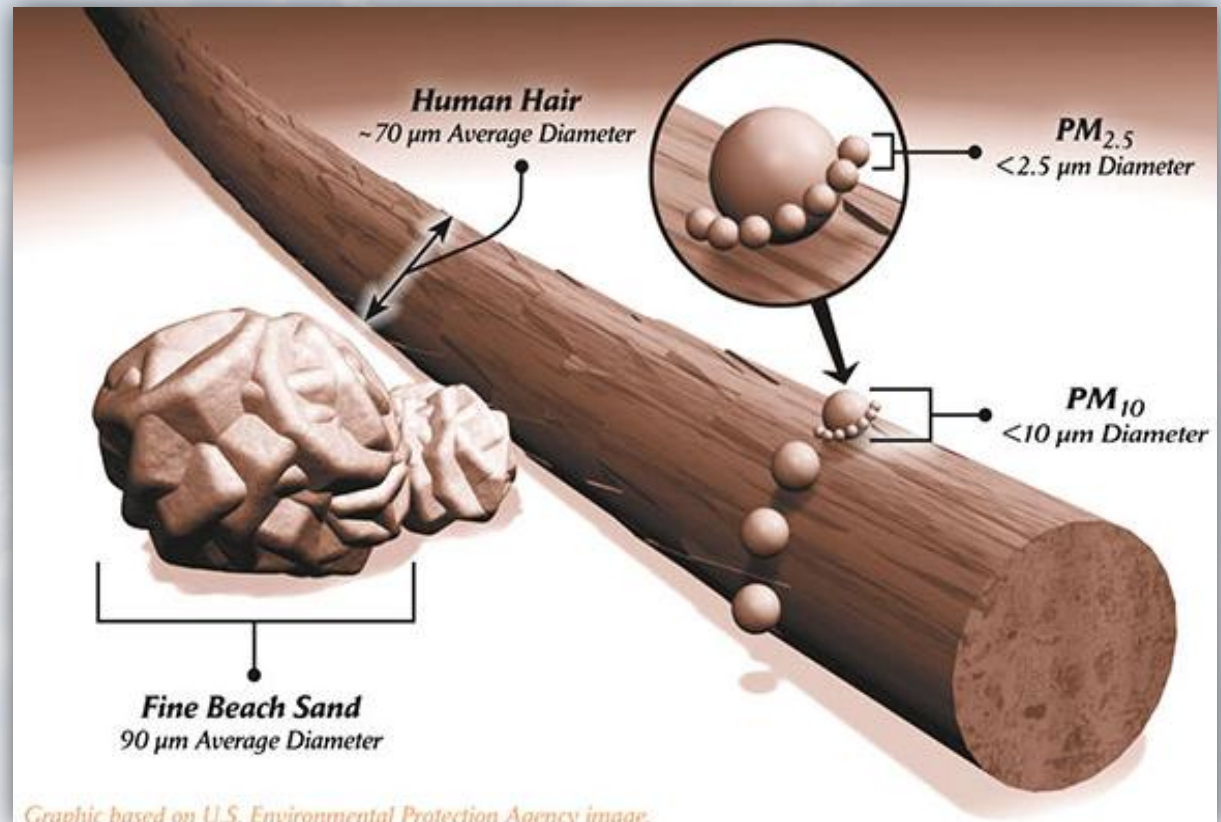
Federal Ozone Standard

- EPA indicates County will be in attainment - designations later this year
- Ozone levels likely to stay below .075 ppm standard
- EPA to review standard and consider revising in 2013



Particulate Matter

- No days over federal PM_{10} standard, or state or federal $PM_{2.5}$ standard in 2011
- 8 days over state PM_{10} standard in 2011



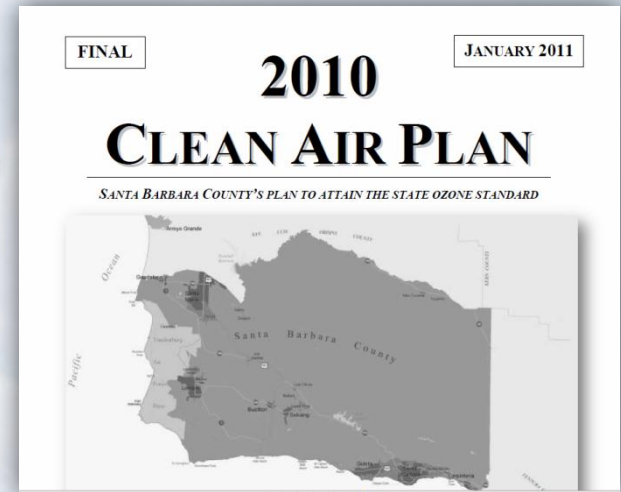
Particulate Monitoring

- Real-time monitoring at Santa Barbara, Goleta, Lompoc and Santa Maria stations
- 2012 Goal: 3 more stations equipped with real-time monitors
- Portable particulate monitor acquired
 - Assess localized impacts during extreme events



2011 District Updates

- Adopted 2010 Clean Air Plan
- Adopted rule changes to implement federal GHG rule for large pollution sources
- Adopted rule revisions
 - Revised permit requirements for semiconductor operations
 - Revised NO_x requirements for water heaters



Marine Shipping Background

- Ships burn heavy bunker fuels
 - Estimates are that ships contribute 15% of NOx pollution worldwide; plus many tons of GHG, toxics, particulates, black carbon
- County has 130 miles of coastline, ships traveling in Channel near shore, several thousand transits/year
- District Board active in pursuing solutions



2011 Shipping Updates

- Detailed update for Board in March 2012
- Coast Guard Study of shipping lanes released September 2011
- State fuel rule extended outside Islands effective December 2011
- National and international standards for cleaner engines and fuels taking effect
- Interest continues in slower vessel speeds

2011 District Updates

Permitting & Compliance Programs



2011 District Updates

- Launched Off-Road Equipment Replacement Program
 - Tractors, construction equipment
- Re-launched Old Car Buy Back
- Funded cleaner school buses, Ag water pump engines, cleaner boat motors



Looking Ahead – GHG Activities

- State is implementing AB 32 Global Warming Solutions Act
- Adopted Cap-and-Trade Program for greenhouse gas emissions
 - Will affect a few facilities in County

ASSEMBLY BILL 32 IMPLEMENTATION AND OTHER ACTIVITIES



Activities

- Low Carbon Fuel Standard (LCFS)
- Scoping Plan
- **Cap-and-Trade**
- Mandatory Commercial Recycling
- Renewable Electricity Standard
- Reporting, Inventory, & Verification
- **Climate Action Team (CAT)**

Take Action

Green Economy

Sectors

- SB 375 Regional Targets
- AB 32 Fee Regulation
- Clean Car Standard
- Early Action Measures
- Advisory Committees
- Public Health Workgroup

Looking Ahead - Other Activities

- Air quality benefits from other state programs
- Co-benefits from local initiatives



Looking Ahead

- New projects coming in with significant GHG emissions
 - Working with P&D and other lead agencies on CEQA analysis, reviewing options
 - Consulting with other air districts
 - Seeking consistency
- Interagency coordination on innovative solutions
 - Landfill, sewage treatment, cogeneration, others
- Rulemaking: 2010 CAP requirements

Looking Ahead

- Working with partners to construct public charging stations for electric vehicles
 - EVs continue to get cleaner over time as utilities meet renewable energy targets
 - County residents benefit from public charging and a regional corridor is established



Looking Ahead - Vision



www.OurAir.org