

South Coast 2012 Air Quality Management Plan

January 25, 2013



California Environmental Protection Agency

 **Air Resources Board**

2012 Air Quality Management Plan

- Regional air quality plan addressing ozone, PM, toxics, and greenhouse gases
- Includes three SIP elements:
 - 24-hour PM_{2.5} standard attainment demonstration
 - 1-hour ozone standard attainment demonstration
 - 8-hour ozone measures and actions to achieve emission reductions from advanced technologies

Proposed Board Action

- Approve the South Coast Air Quality Management District's 2012 Air Quality Management Plan as a revision to the California State Implementation Plan, and direct the Executive Officer to submit the plan to U.S. EPA

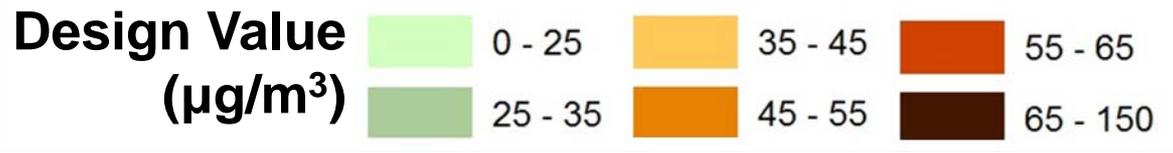
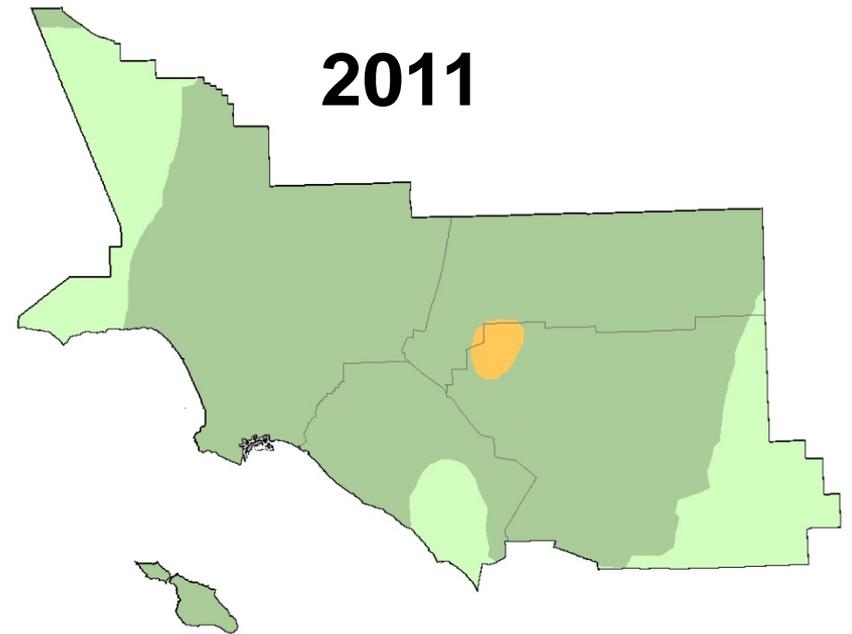
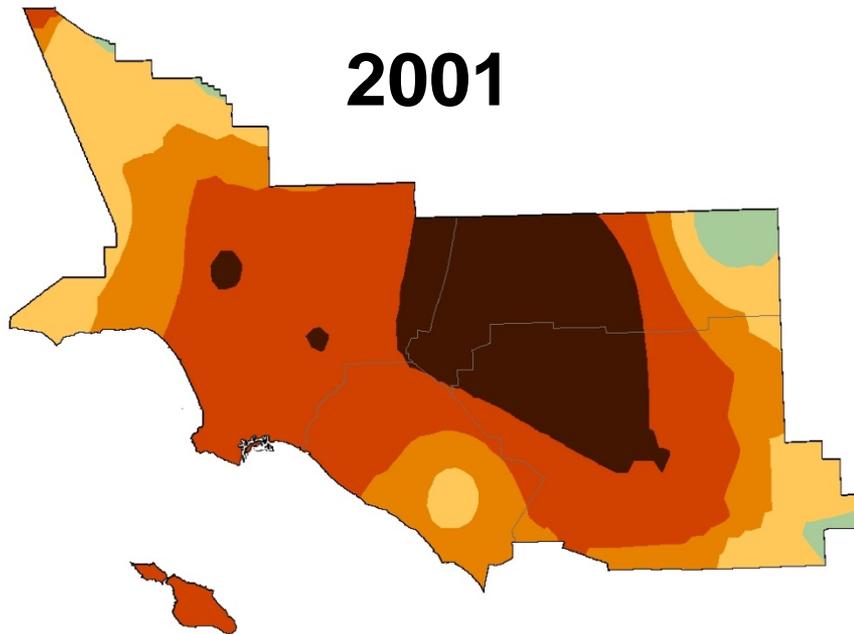
Background



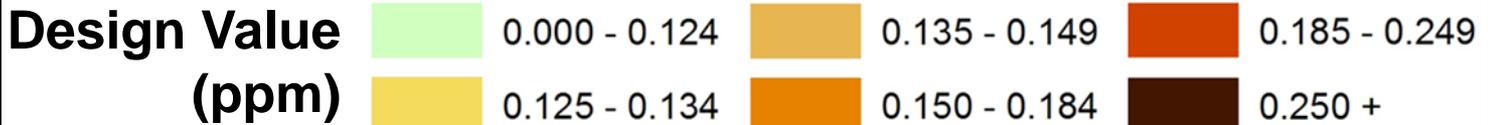
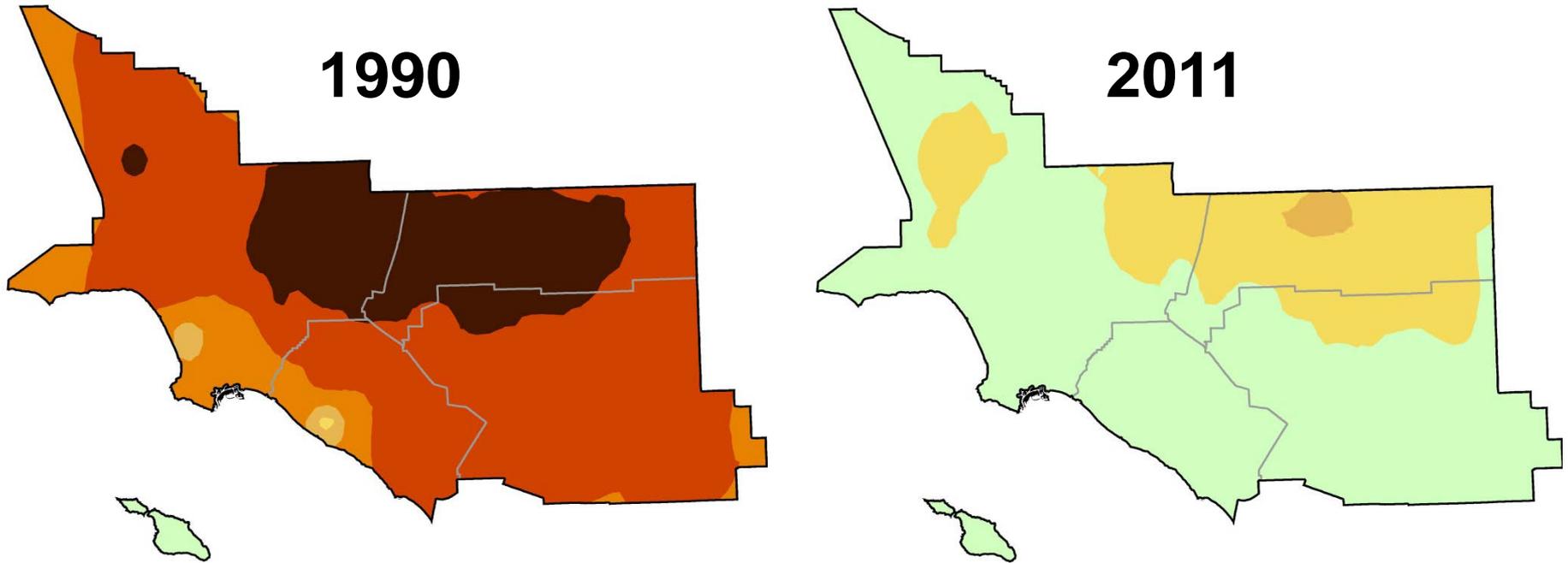
South Coast Air Quality Trends

- PM2.5 and ozone air quality continues to improve
- South Coast expected to attain both the annual and 24-hour PM2.5 standards by 2014
- 1-hour and 8-hour ozone standards pose long-term challenge

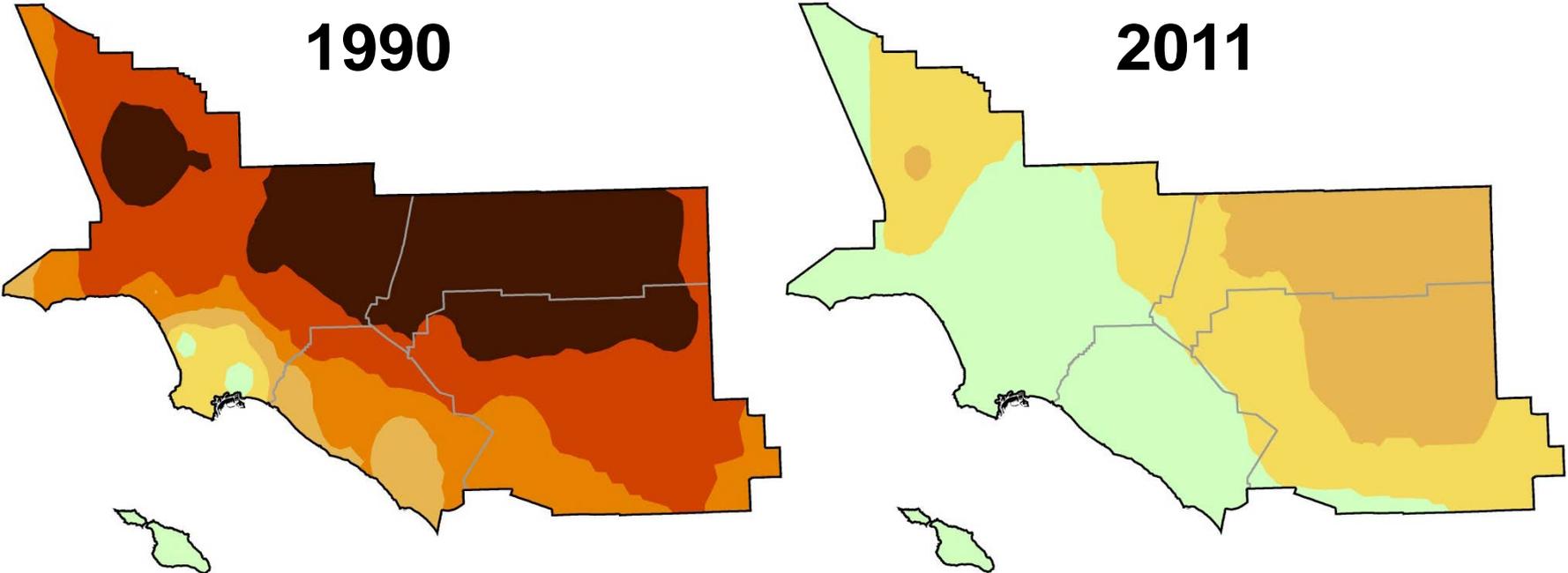
24-hour PM_{2.5} Design Values



1-hour Ozone Design Values



8-hour Ozone Design Values



Design Value (ppm)		
0.000 - 0.084	0.095 - 0.109	0.125 - 0.149
0.085 - 0.094	0.110 - 0.124	0.150 +

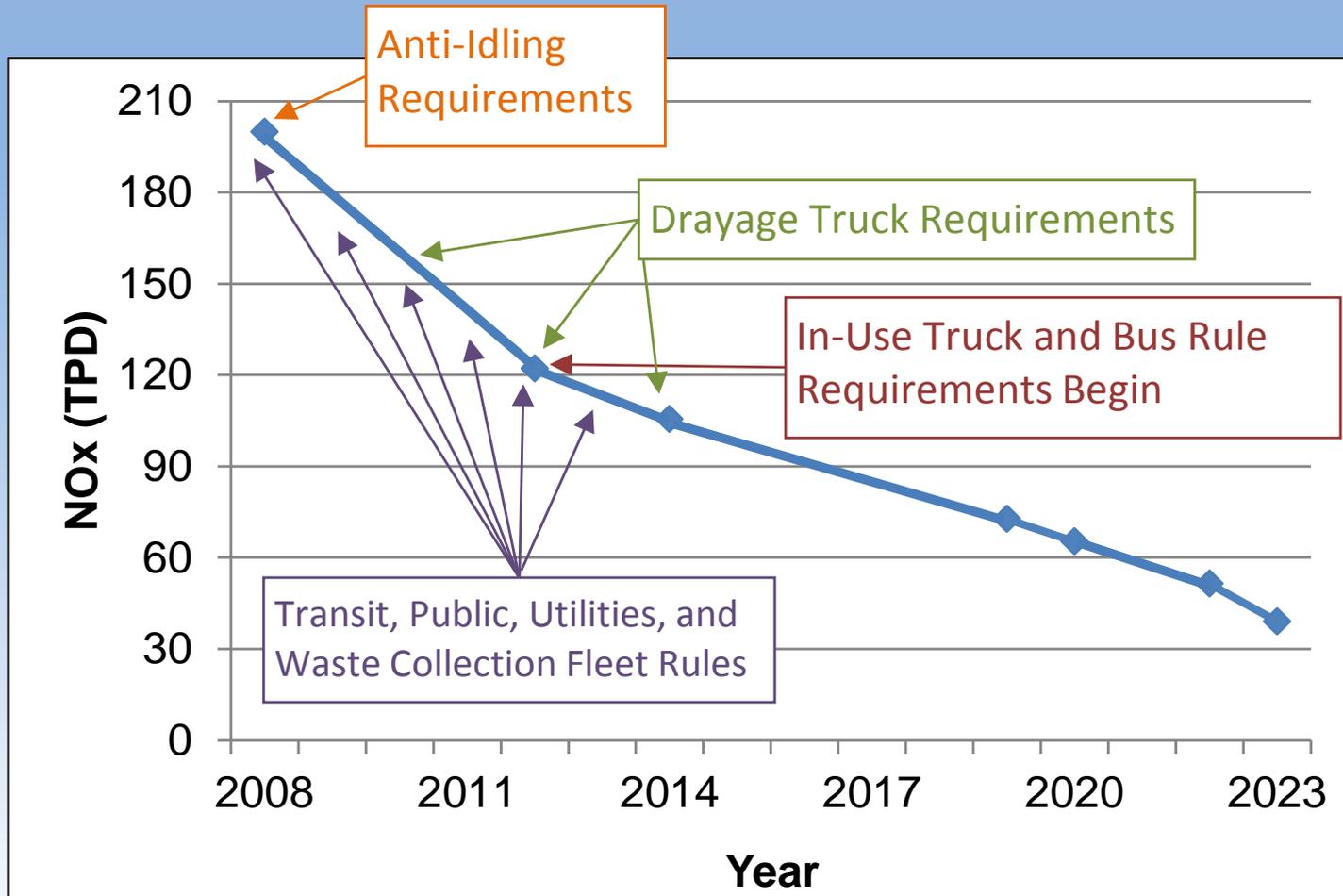
2012 AQMP Strategy

- Carries forward U.S. EPA approved 2007 SIP strategy for ozone and PM_{2.5}
- Adds new District measures
- Includes measures and actions for 1-hour and 8-hour ozone
- Includes other required elements

2007 SIP Implementation Rules

- ARB
 - Heavy-duty trucks and buses
 - Off-road diesel equipment
 - Freight transport
 - Ships
 - Harbor craft
 - TRU
 - Cargo handling equipment
 - Consumer products
- Bureau of Automotive Repair
 - Smog Check

Diesel Fleet Rules: NOx Reductions



2007 SIP Implementation – District

- Wood Burning Fireplaces, Wood Stoves
- SO_x RECLAIM
- Stationary source technology upgrades
- Solvents and Lubricants
- Architectural Coatings
- Evaporative emissions
- Greenwaste Composting Operations
- Ovens, Dryers and Furnaces
- SOON Program

Joint Efforts on Advanced Technologies

- 2008 Clean Air Technology Initiative – U.S.EPA, ARB, SCAQMD, SJVAPCD
- Collaborative ARB/District efforts to fund technology demonstrations
- South Coast District Technology Advancement Program

2012 Air Quality Management Plan



Attainment Demonstration for 24-hour PM_{2.5}

- Demonstrates attainment by 2014
- Enhances measures for directly emitted PM_{2.5}
- Emphasis on episodic high PM_{2.5} days
 - Curtailment of residential wood burning
 - Curtailment of prescribed open burning

Attainment Demonstration for 1-hour Ozone

- U.S. EPA action required new 1-hour attainment demonstration
- District modeling consistent with U.S. EPA guidelines
- Incorporates 8-hour ozone strategy, including use of Clean Air Act advanced technology provisions
- Attainment by 2022

Advanced Technology Measures and Actions

- Needed for progress on 182(e)(5) commitments
- Accelerated penetration of near-zero and zero emissions technologies
- Early retirement of vehicles and equipment
- Further reductions from freight transport
- Other actions intended to support advanced technology deployment

Other Clean Air Act Requirements

- Emission inventory
- Reasonably Available Control Measures
- Contingency
- VMT offset demonstrations
- Conformity budgets

Staff Recommendations

- Approve the South Coast AQMD's 2012 Air Quality Management Plan as a revision to the California SIP and direct the Executive Officer to submit to U.S. EPA