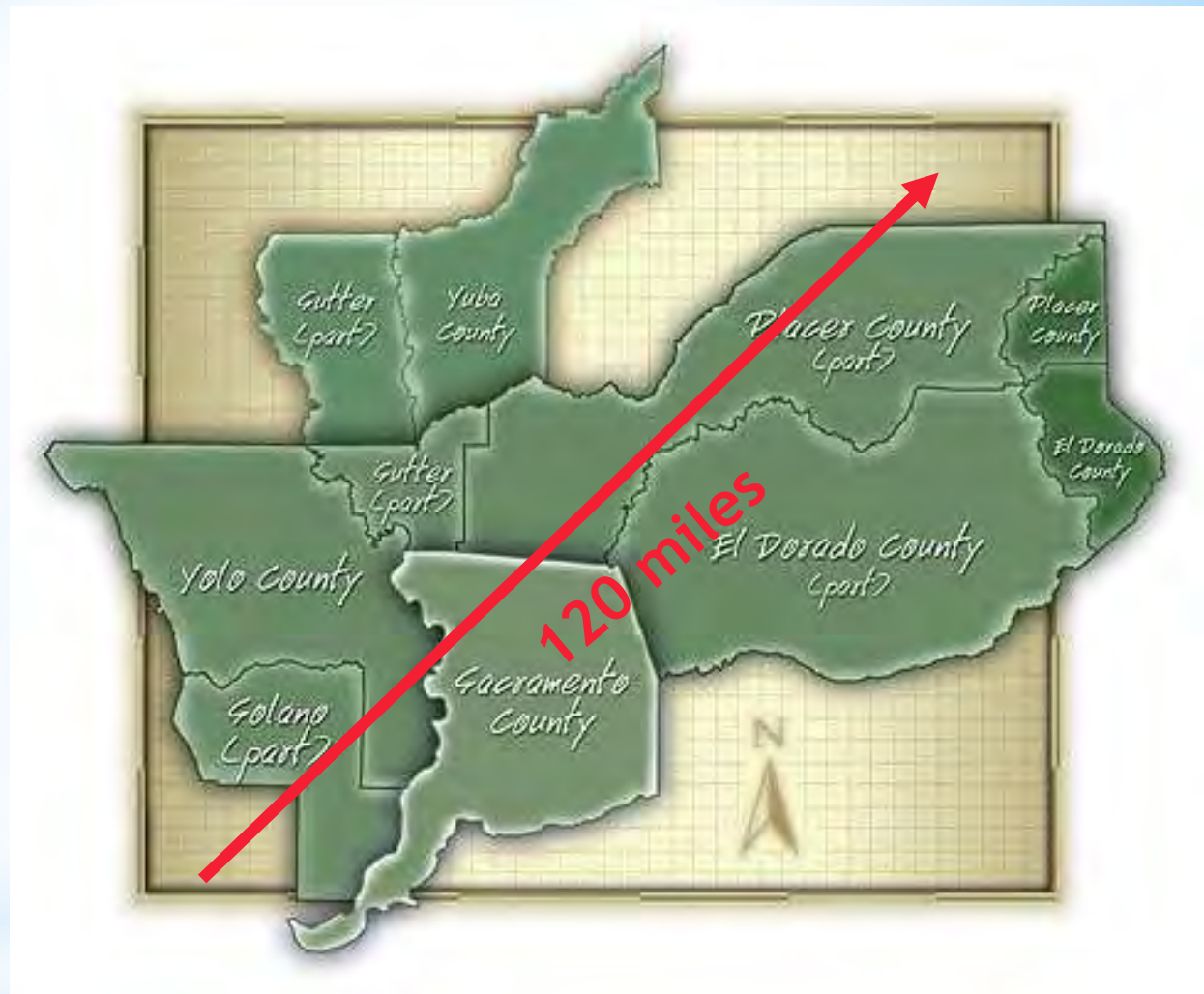


Leveraging Resources to Maximize Clean Diesel Benefits and Co- Benefits

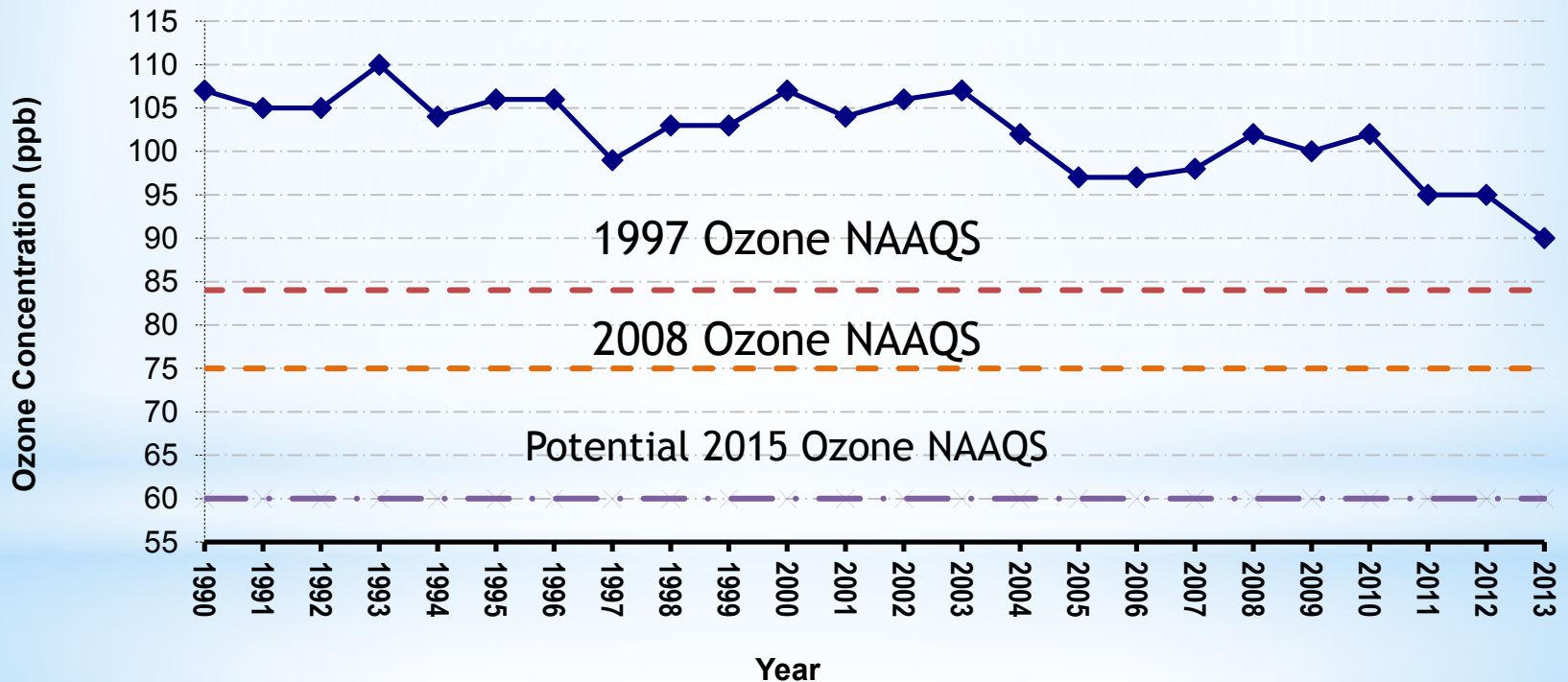
**WCC Partners Meeting
September 4-5, 2014**

*Larry Greene, Executive Director
Sacramento AQMD*

**Federal
Ozone
Non-
attainment
Area**

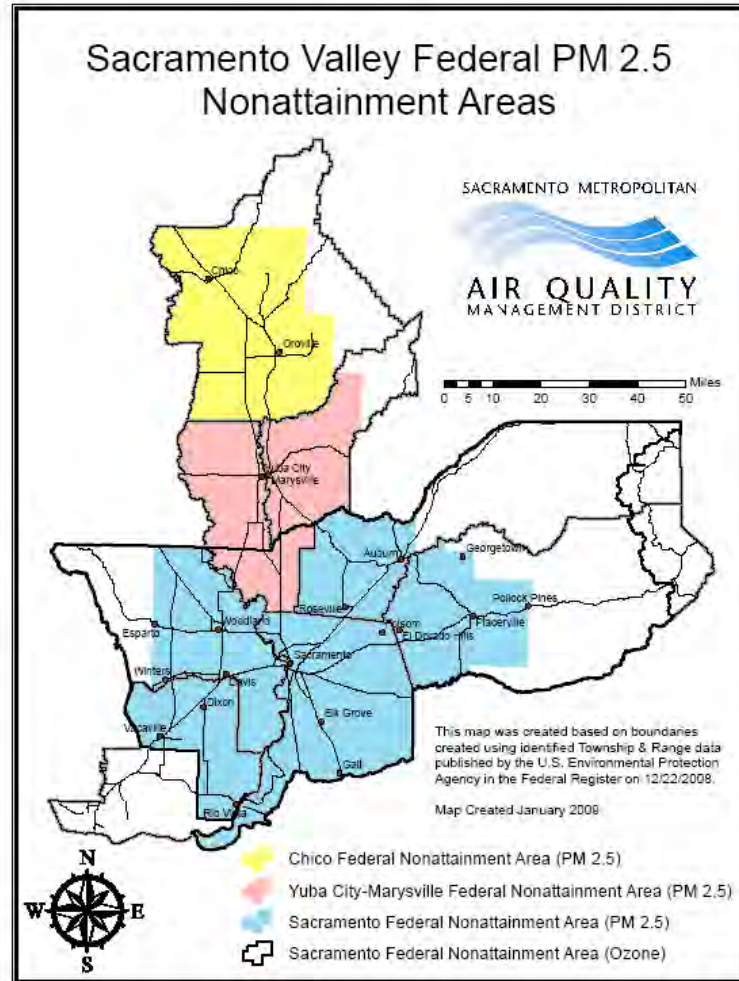


Ozone Levels Sacramento Region



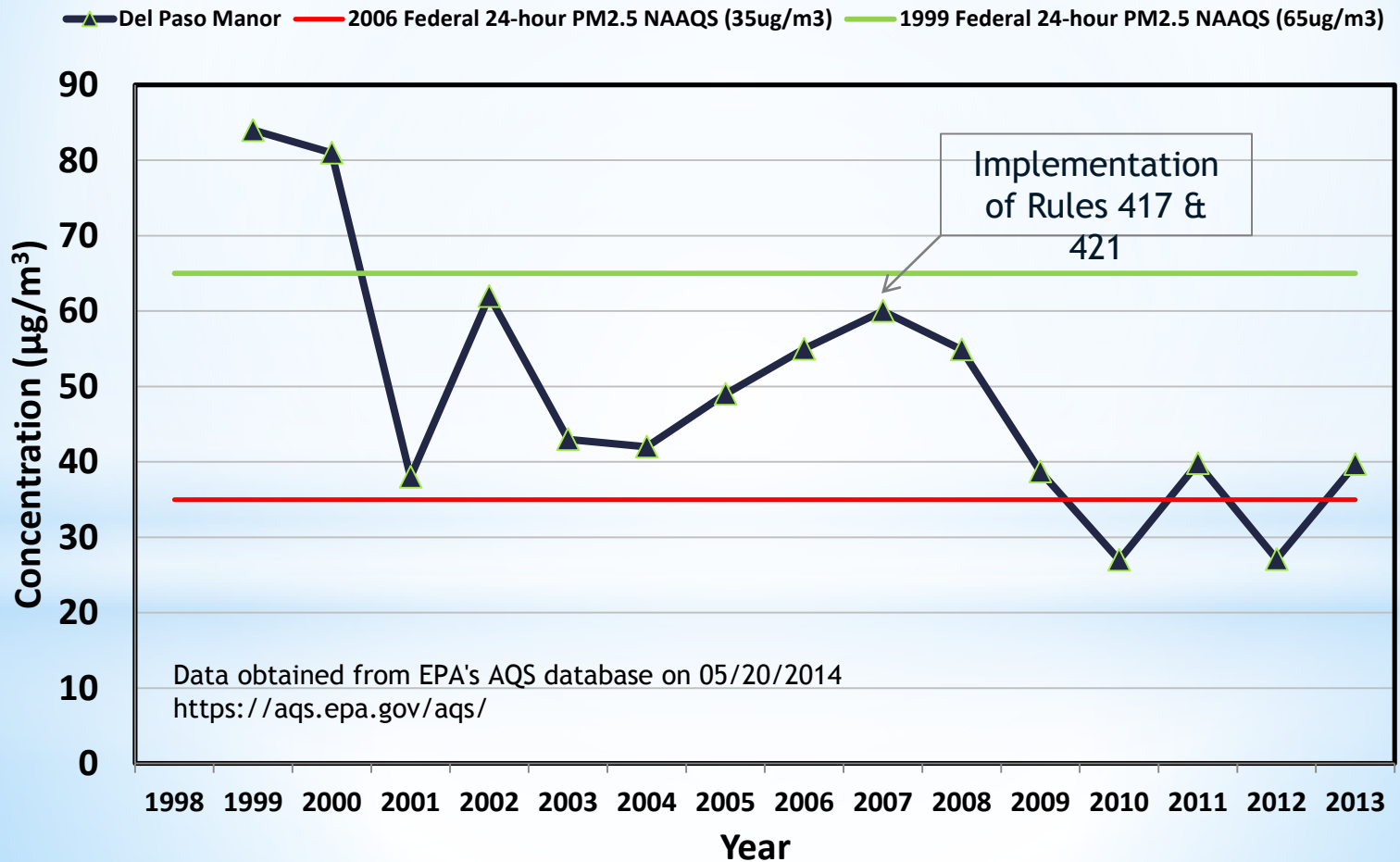
- Shows the highest 8-hour ozone design values, for each year location varies, most frequently (Folsom)
- Data source: CARB
(<http://www.arb.ca.gov/adam/trends/trends2.php>)
Downloaded on 08/25/2014

* Regional PM2.5 Non-Attainment



* Air Quality Trends (PM_{2.5})

National Yearly PM_{2.5} 24-Hour 98th Percentile at the Del Paso Manor Site in Sacramento county (1998-2013)



* Need continued motor vehicle reductions

- * Cleaner Vehicles - state regulations and robust incentives (Moyer, bond, Cap and Trade, SECAT)
- * Cleaner Fuels
 - * state and federal regulations
 - * Technology transformation - hydrogen (fuel cell), electric, renewable fuels
- * Reduced Vehicle Miles Traveled (VMT)
 - * Continued support for transit, jobs/housing balance, Blueprint principles, biking/walking opportunities
 - * SCS - greenhouse gas reductions also provide ozone and PM2.5 benefits
 - * Transportation Control Measures - (Spare The Air, Freeway Service Patrol, SECAT)

* Link to Local, State, Federal Funding

Funding Source	Engines	NOx tpd	PM10 tpd	ROG tpd	Funding
SECAT	2362	2.698	0.279	0.419	\$75,153,565
Moyer	2266	5.345	0.503	0.821	\$65,665,252
DMV/Measure A/School Bus	536	0.463	0.036	0.056	\$19,710,024
Construction Mitigation	43	0.116	0.011	0.017	\$2,340,057
Goods Movement Prop 1B	340	0.734	0.058	0.099	\$23,325,217
School Bus Prop 1B	519	NA	NA	NA	\$20,136,105
EPA Funds	172	0.09	0.004	0.008	\$3,025,441
1998 – 2014 Total	6,238	9.446	0.891	1.42	\$209,355,661

1998 – 2014 Total \$209,355,661

* Early Introduction of Clean Equipment



Old Diesel Ag Pump
at Pacific Ag Lands
in Galt



Contract Development (Michael
Corbridge - Interstate Batteries)



Replacement Electric
Ag Pump

* Integral to Planning Key Regional Projects



Folsom Dam Project



Port of West Sacramento



Sacramento International Airport



Corps Levee Work

* Integral to Public Outreach Program - Clean Cities Event



Good Day Sacramento –
Channel 31’s “Car Czar”
– morning drive



Displays ranged from propane commercial landscaping equipment to heavy-duty LNG and diesel hybrids



Channel 3 morning drive coverage by Mike TeSelle



200 fleet managers and vehicle technology providers



Electric, propane, natural gas, and hybrid gasoline vehicles...cars, SUVs and pickup trucks



* Integral to our Regional Transportation Plan

- * Ground level ozone is formed from volatile organic compounds (VOCs) and nitrogen oxides (NOx) + sunlight
- * Modeling conducted in 2007 showed that NOx emissions reductions were **7 times more effective** than VOC in reducing ozone concentrations
- * NOx reductions are essential to attainment
- * In 2014, on-road and off-road mobile sources contribute over **80% of our NOx emissions**
- * **MTP performance directly impacts emissions from mobile sources in the SIP and is a critical element in our regional successes thus far and in the future.**

* Other District Incentive Programs



Wood Stove Fireplace Change Out

- 5000+ devices replaced
- \$2.8 million allocated

