

El Dorado County Air Quality Management District Motor Vehicle Emission Reduction Program



Sidewalk to Sierra Elementary



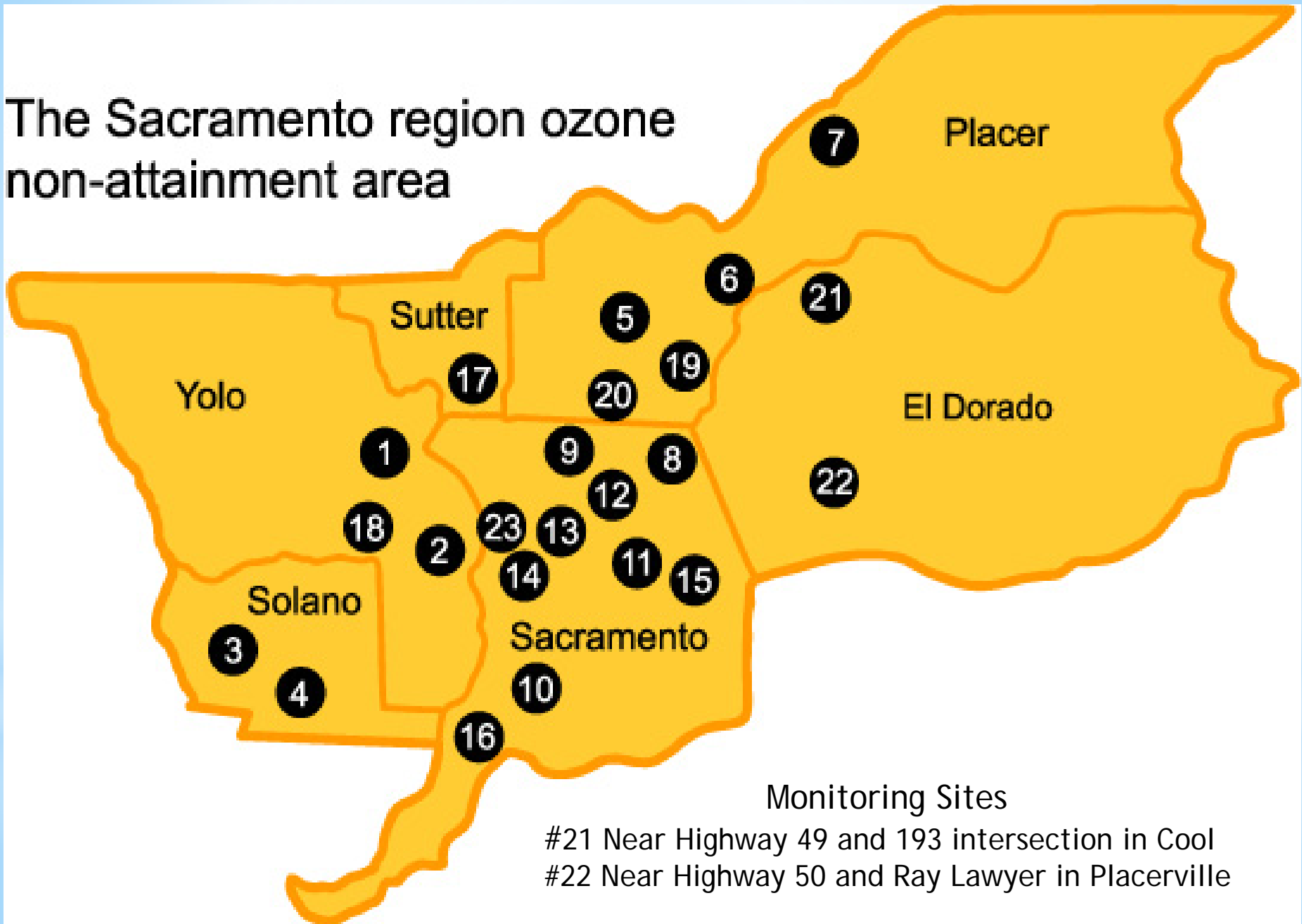
Bayne Road



Ozone Standards and Sacramento Region Designations

National Standard	Federal Designation	California Standard	State Designation
75 ppb (2008 Eight Hour)	Severe Nonattainment	90 ppb (1988 One Hour)	Nonattainment
70 ppb (2015 Eight Hour)	Severe Nonattainment	70 ppb (2015 Eight Hour)	Nonattainment

The Sacramento region ozone non-attainment area



Federal Ozone Nonattainment Classifications

Marginal: Area has a design value of 0.076 up to 0.085 ppm.

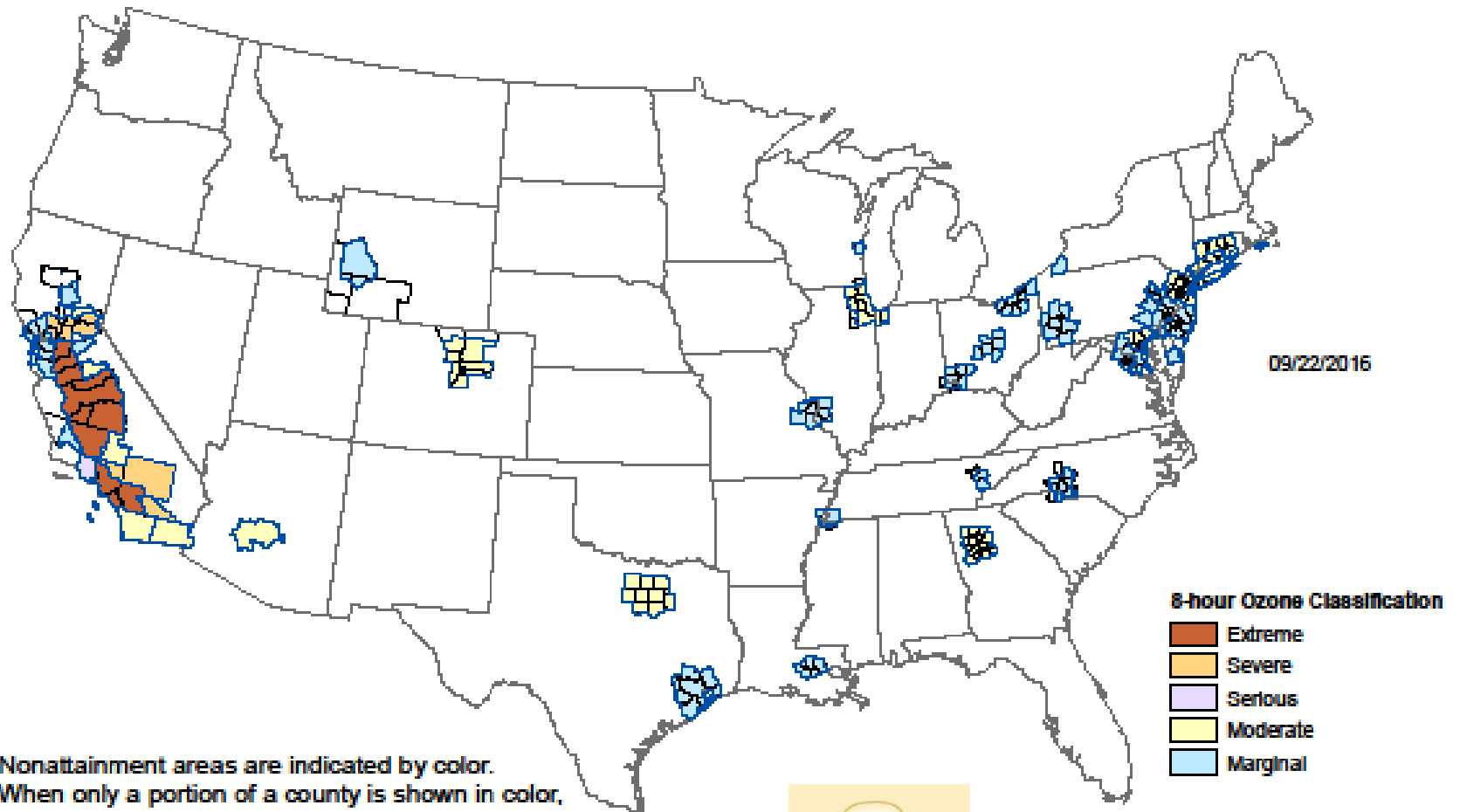
Moderate: Area has a design value of 0.086 up to 0.099 ppm.

Serious: Area has a design value of 0.100 up to 0.112 ppm.

Severe: Area has a design value of 0.113 up to 0.174 ppm (EDC).

Extreme: Area has a design value of 0.175 ppm and above.

8-Hour Ozone Nonattainment Areas (2008 Standard)



Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.



Ozone Generation



OXIDES OF
NITROGEN

+



VOLATILE ORGANIC
COMPOUNDS

+



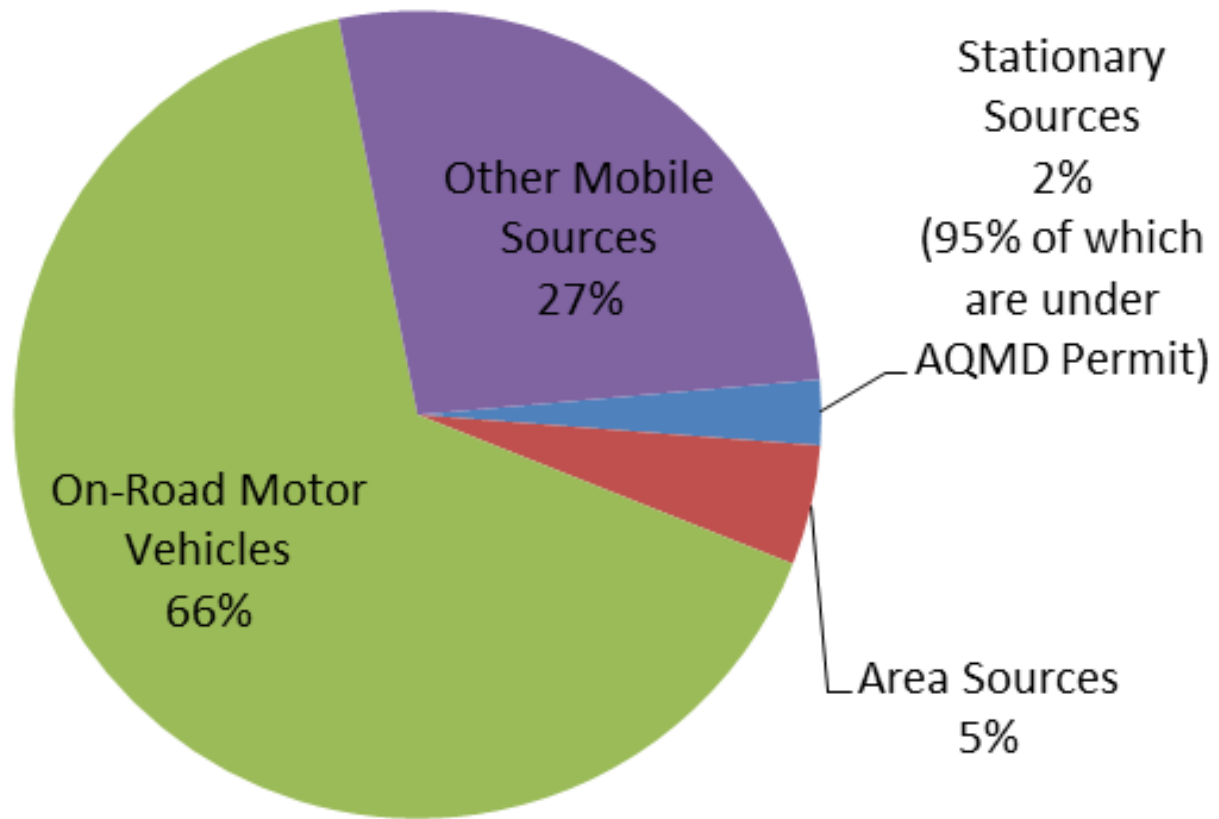
SUN

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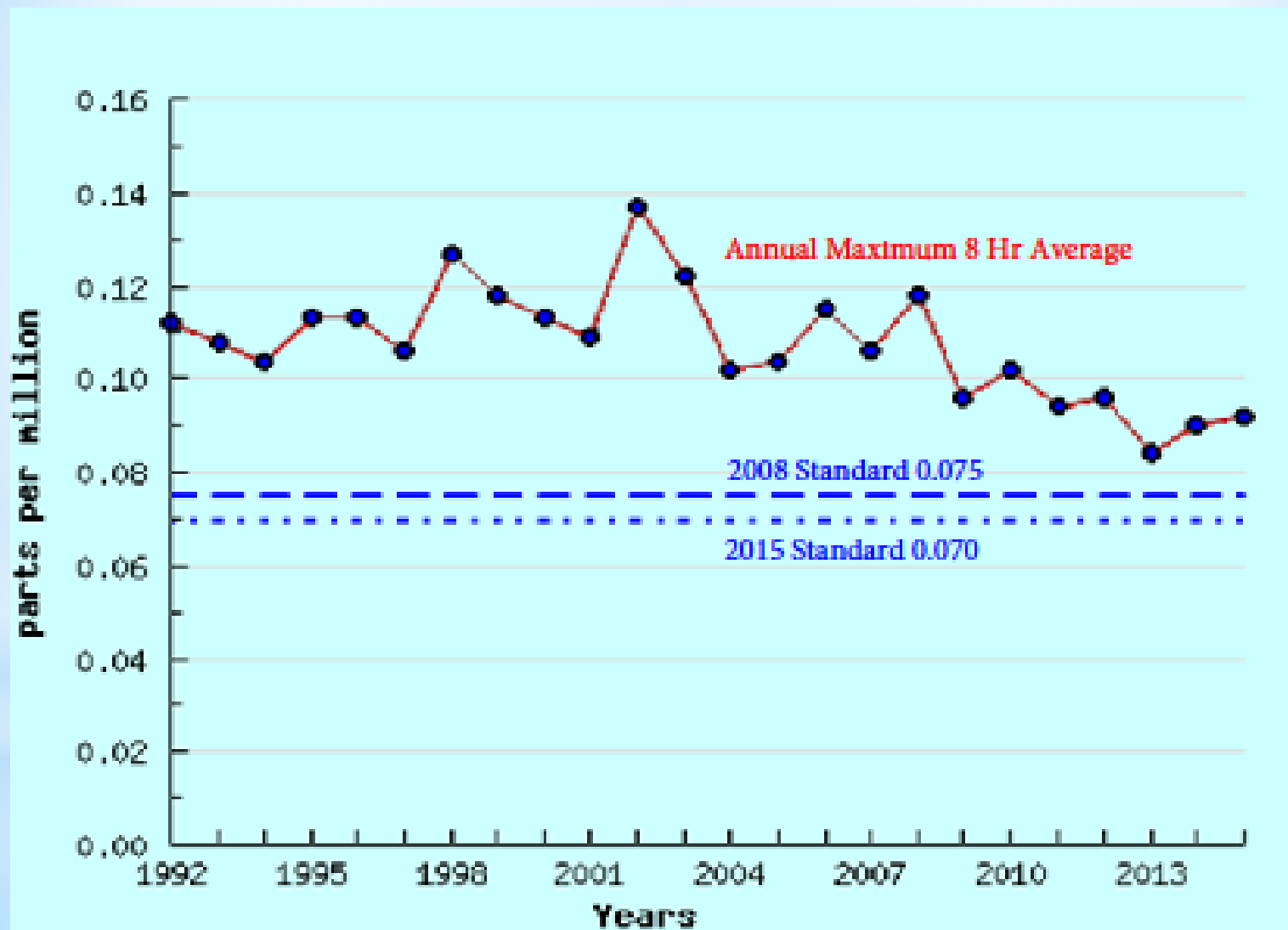


GROUND-LEVEL OZONE
(SMOG)

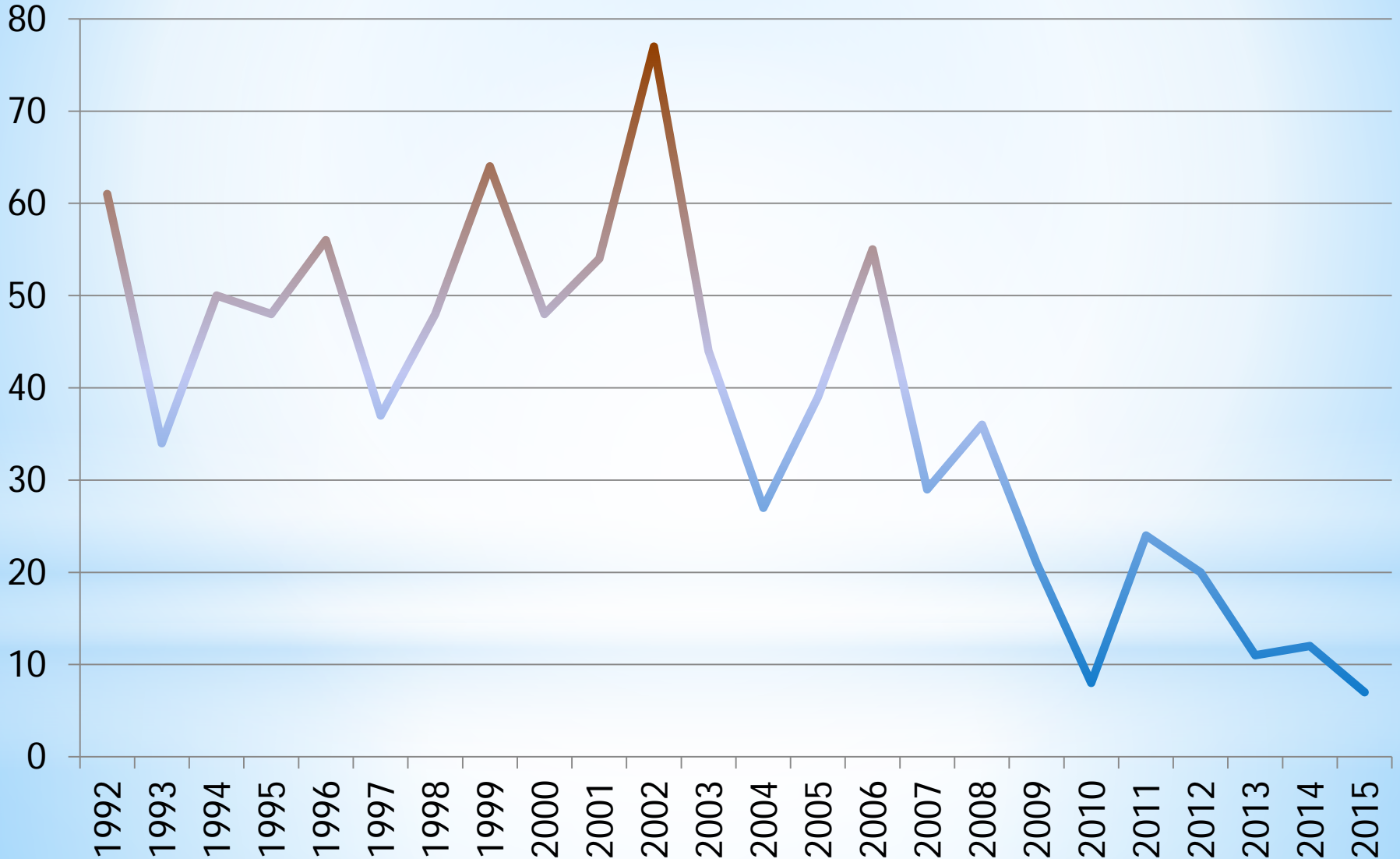
2012 NOx Emissions (7.29 tpd)



Ozone Reduction Progress



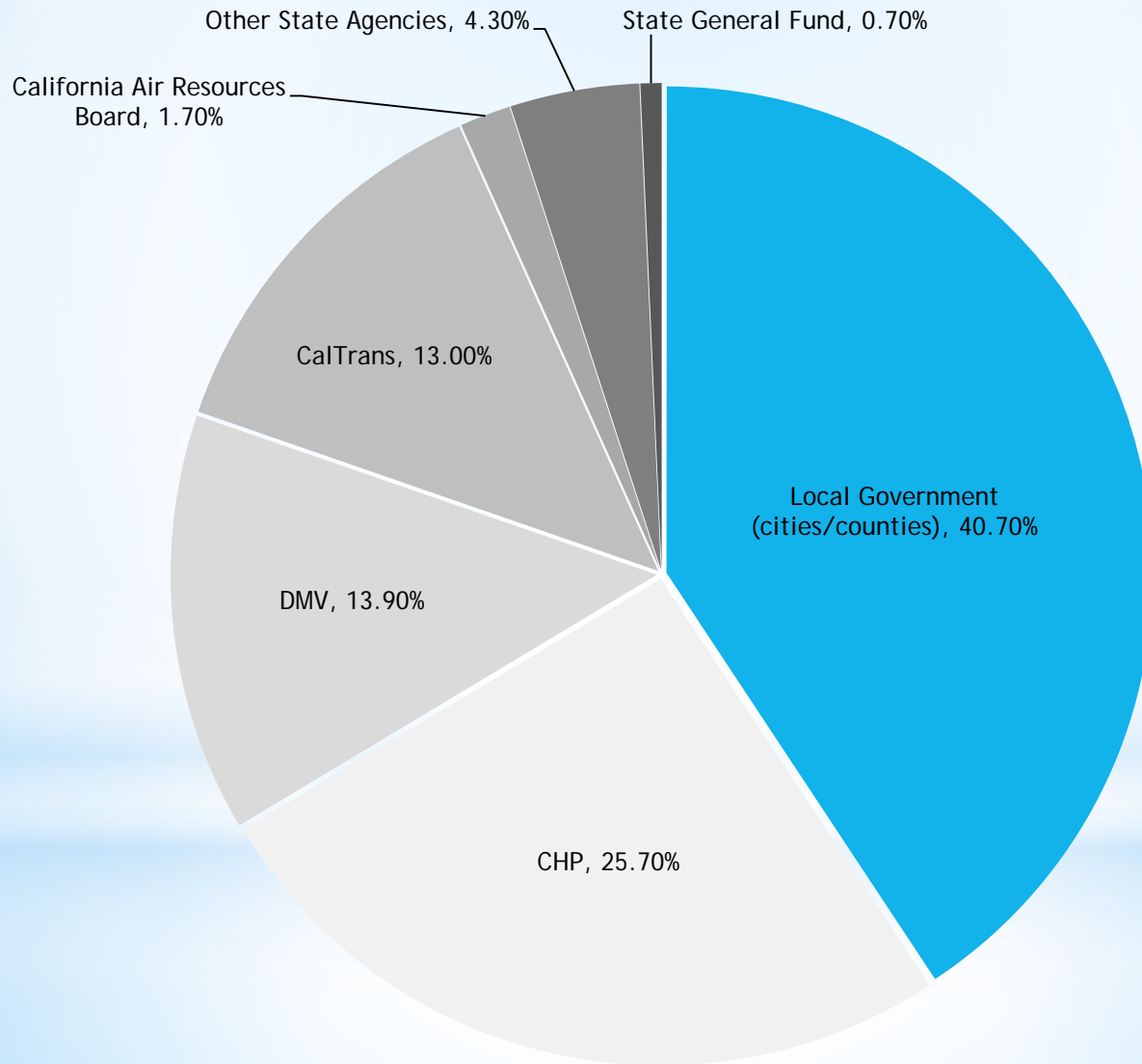
Number of Days per Year in EDC that Exceeded 2008 National Ozone Standard



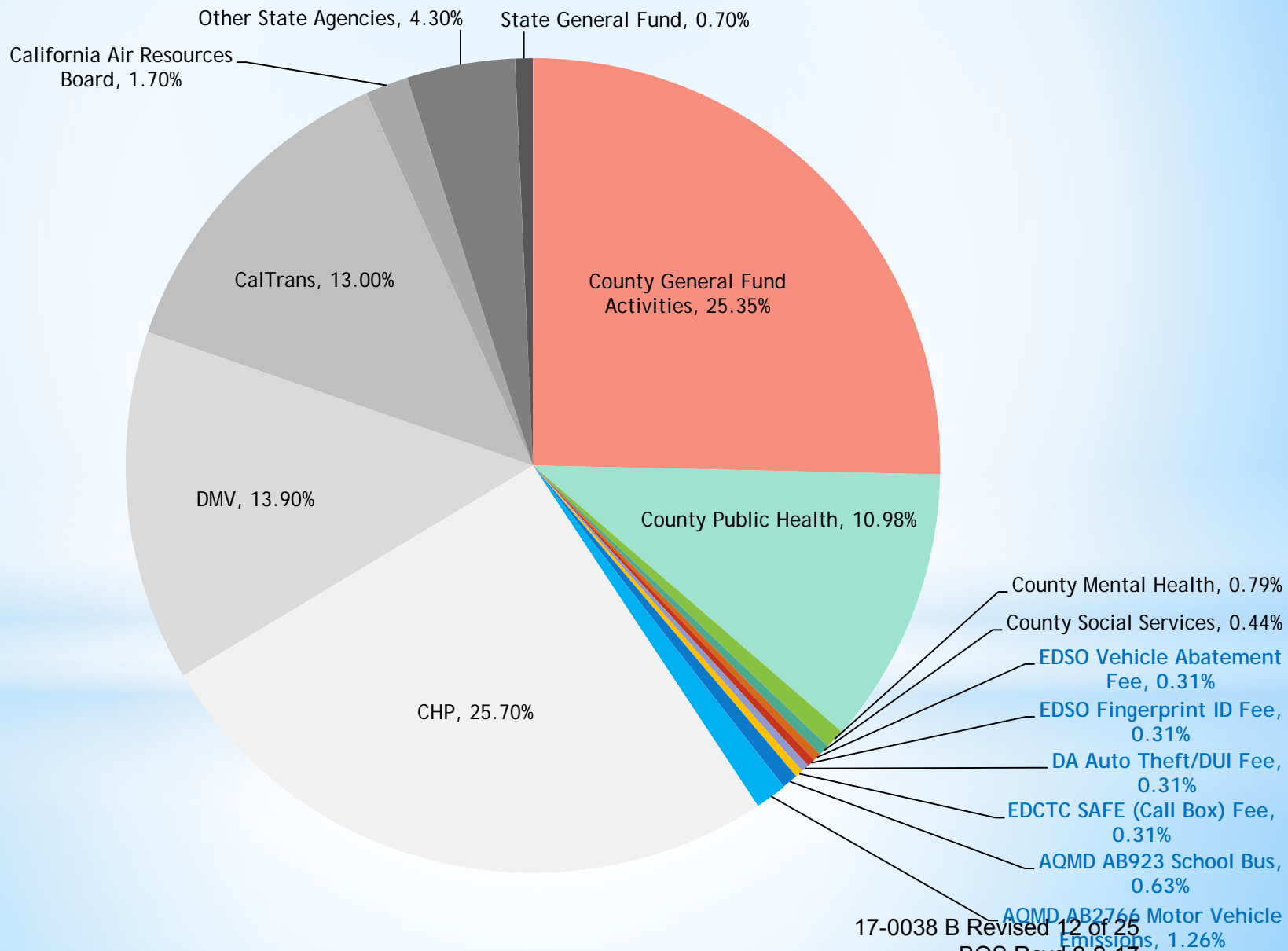
DMV/MVER Funding History

- 9/30/90 State passed AB2766 establishing mechanism for Air Districts to collect vehicle registration fee for motor vehicle emission reduction work.
- 6/19/91 EDC Resolution 209-91 adopted, directing the DMV to collect \$2 (pursuant to AB2766) for AQMD motor vehicle emission reduction work.
- 3/15/94 EDC Resolution 70-94 adopted, directing the DMV to collect an additional \$2 (pursuant to AB2766) for AQMD motor vehicle emission reduction work.
- 9/23/04 State passed AB923 establishing mechanism for Air Districts to collect vehicle registration fee for heavy duty diesel vehicle NOx reduction work.
- 3/21/06 EDC Resolution 079-2006 adopted, directing DMV to collect \$2 (pursuant to AB923) for AQMD heavy duty diesel vehicle NOx reduction work.

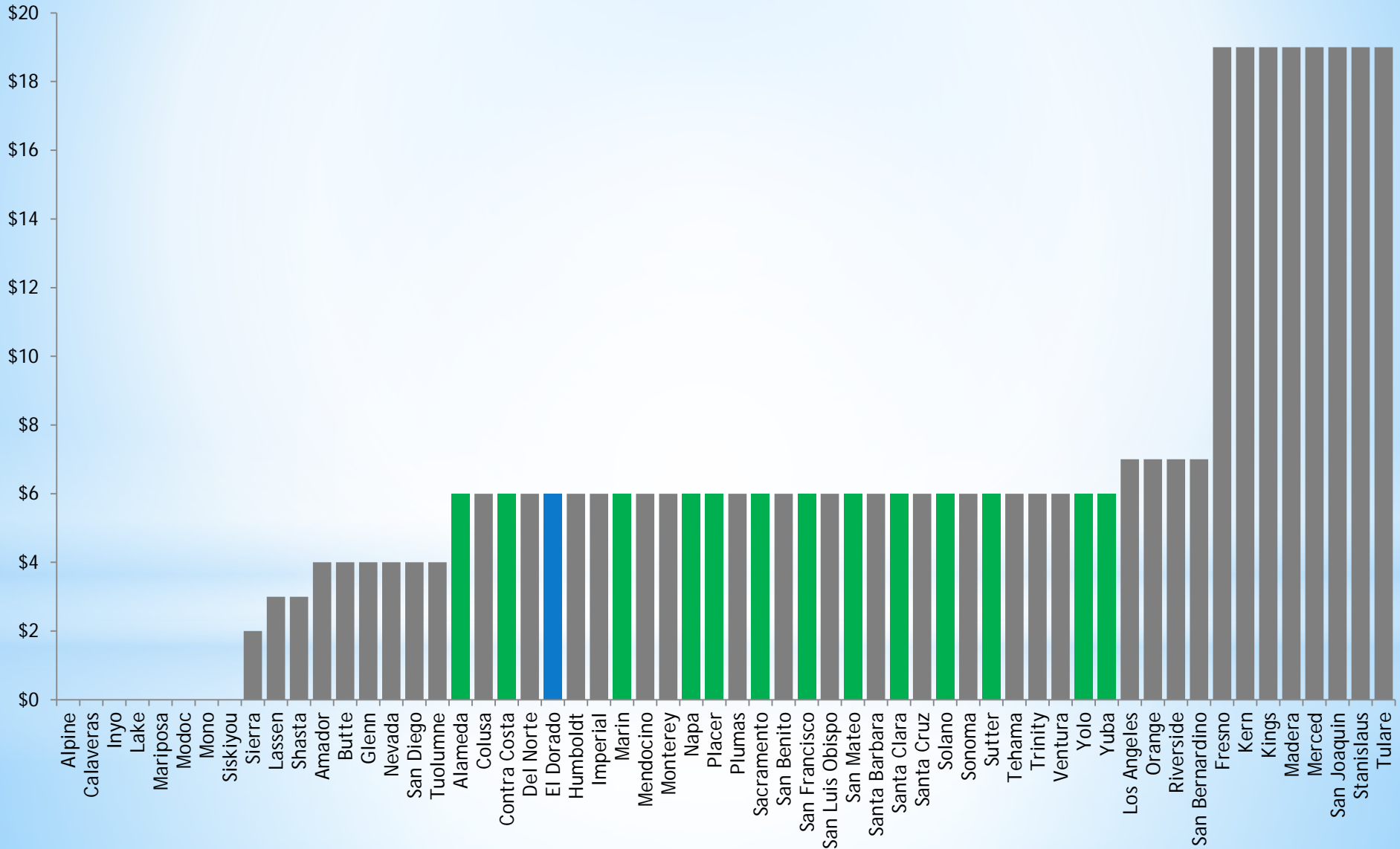
DMV Registration Funds Distribution



County Agency DMV Funds Distribution



DMV Funds by County



Sac Region Air District DMV 2766 Fund Use and Staffing Levels

District	2766\$ for Admin	2766\$ for Projects	Staff	#Permits/ Staff
El Dorado	50%	50%	8	91
Sacramento	50%	50%	110	40
Feather River	52%	48%	10	64(87)*
Yolo/Solano	85%	15%	25	67
Placer	100%	0%	21	64

DMV 2766 Infrastructure Projects

- Sidewalk for Sierra Elementary School
- 3 Bike paths EDH: EDH Blvd, Harvard, EDH Blvd to SV Pkwy
- Bike lanes on Cameron Park Drive
- Park and Ride facility at Highway 50/Cambridge Road
- Solar LED lighting at 8 El Dorado Transit bus stops
- Smart Routes to School ADA curb ramp Oak Ridge HS
- Bayne Road culverts and chip sealing, 2.5 miles of roadway
- Mosquito Road transportation facility expansion
- Electric vehicle charging stations at:
 - Mosquito Road facility, Camino and Pollock gas stations
 - County owned and leased facilities



EDH Boulevard



Mosquito Road



Before

After

El Dorado Trail

DMV 2766 Community Projects

- Shuttles:

- El Dorado County Fair, 9 yrs
- American River Coloma, 9 yrs
- American River Music Festival, 6 yrs
- Apple Hill, 6 yrs
- Spare the Air - Free ED Transit on STA days, 3 yrs
- COC Stay and Play/Gold Panning Championship



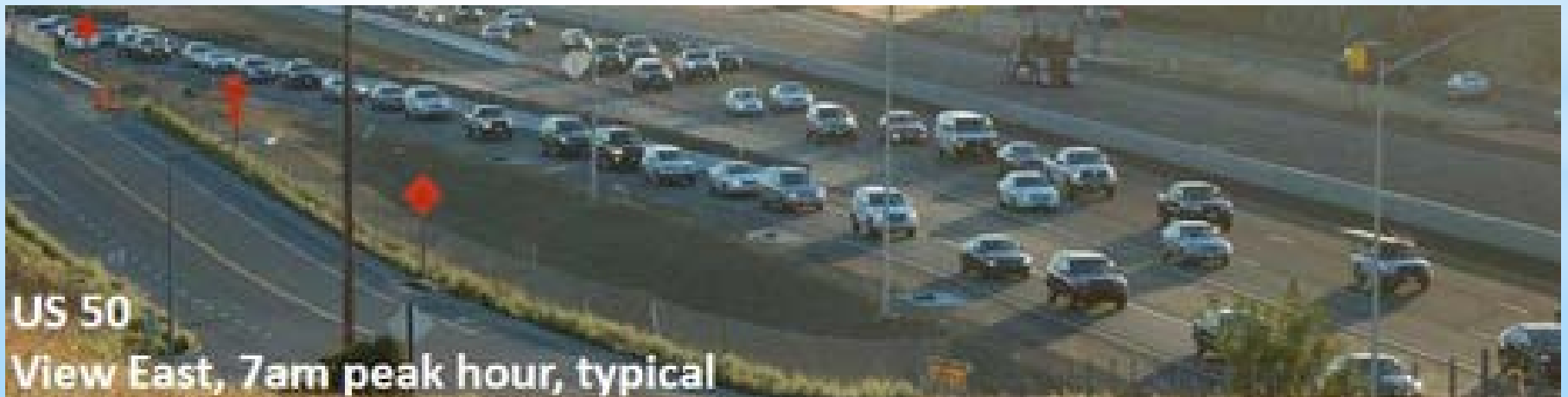
- Spare the Air education outreach, 7 yrs
- Residential chipping (El Dorado Fire Safe Counsel and Meeks Bay Fire), 4 yrs
- Bike Friendly 50 campaign promoting safe cycling in the CP and EDH, 2 yrs
- Smart Routes to School bike, walk, bus & carpool audits at 3 county schools, brochures production and website development

Infrastructure & Community Projects



EV Purchase/Lease Incentive to County Residents:

- Reduces vehicle emissions
- Optimizes Highway 50 HOV lane usage
- 100 car milestone reached 1/11/17! ~ 0.25% of commute traffic



2766 Local Agency Projects

Equipment and Retrofits Provided to Local Agencies:

- Hybrid SUV for Placerville Police Department
- PZEV for Placerville
- Diesel bus retrofits for El Dorado Transit
- Two hybrid vehicles for EID
- Dump truck for Meeks Bay Fire
- Wood chippers for Lake Valley and Meeks Bay Fire Districts, reducing vehicle trips and fuel load
- Videoconference equipment for Grand Jury



Equipment and Retrofits to County:

- Two street sweepers for DOT
- Diesel retrofits for 34 on-road DOT vehicles
- Electric motorcycles for Parks/EDSO
- Bike racks at several buildings and libraries
- Hybrid, plug in hybrid and EVs for County Fleet (+CMAQ)



2766 Funding for County Projects

\$391,000+ to General Fund Departments:

- \$24,000 Electric Motorcycles for El Dorado and Rubicon Trails 2017
- \$100,000 El Dorado Trail - Walkabout Way/Las Trampas 2008
- \$33,546 El Dorado Trail - Walkabout Way/Parkway 2006
- \$183,450 El Dorado Trail - Missouri Flat/Forni 2008
- \$50,000 EDC Library Bookmobile 2002



\$1,164,000+ in Savings to Transportation Division:

- \$203,236 Street sweeper 2009
- \$190,520 Street sweeper 2011
- \$342,111 Diesel equipment retrofits 2008-2012
- \$206,999 Bayne Road chip seal 2013
- \$91,641 Bike lane - Cameron Park Drive 2015
- \$25,000 Bike trail - SMUD easement EDH 2011
- \$17,128 Bike path - Harvard Way 2005
- \$7,689 Bike path - El Dorado Hills Boulevard 2005
- \$34,500 EDH/Hwy 50 Pedestrian overcrossing planning 2009
- \$23,267 Tahoe CNG paratransit vehicle match 2004
- \$22,233 Countdown pedestrian signals 2008



* Other smaller funded County projects not included in this summary

DMV 923 Projects

Equipment Provided to the Community:

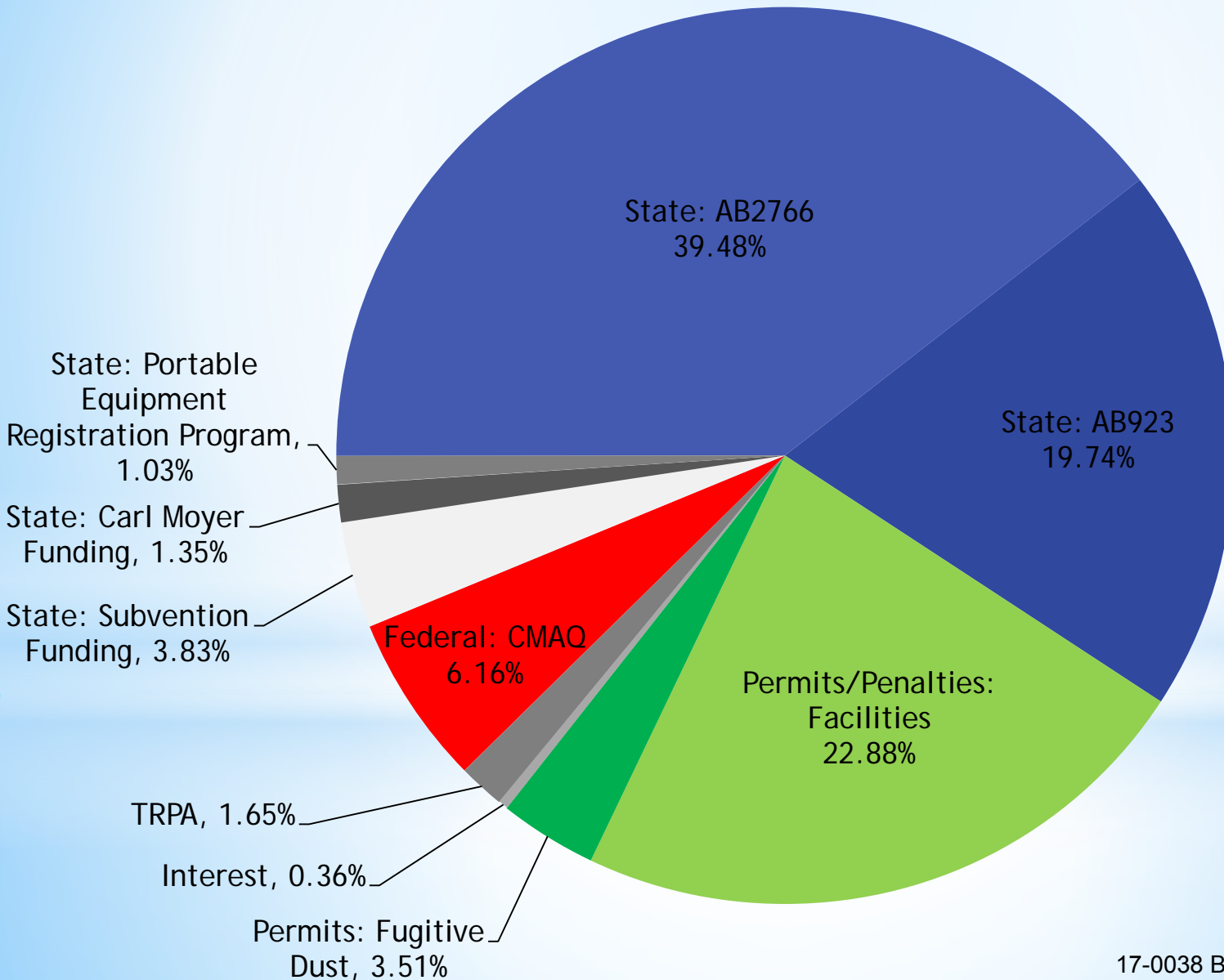
- 20 School buses replaced (\$2,863,739):
 - Black Oak Mine, Buckeye, El Dorado, Mother Lode, Gold Oak, Gold Trail, Placerville, Pollock Pines and Rescue school districts
- 5 Schools buses replaced, LESBP funds matched (\$125,000):
 - El Dorado, Lake Tahoe and Rescue school districts
- 18 School buses retrofit (\$320,577):
 - El Dorado, Lake Tahoe, Mother Lode and Rescue school districts
- 9 Marine engines replaced in Lake Tahoe (\$49,275)



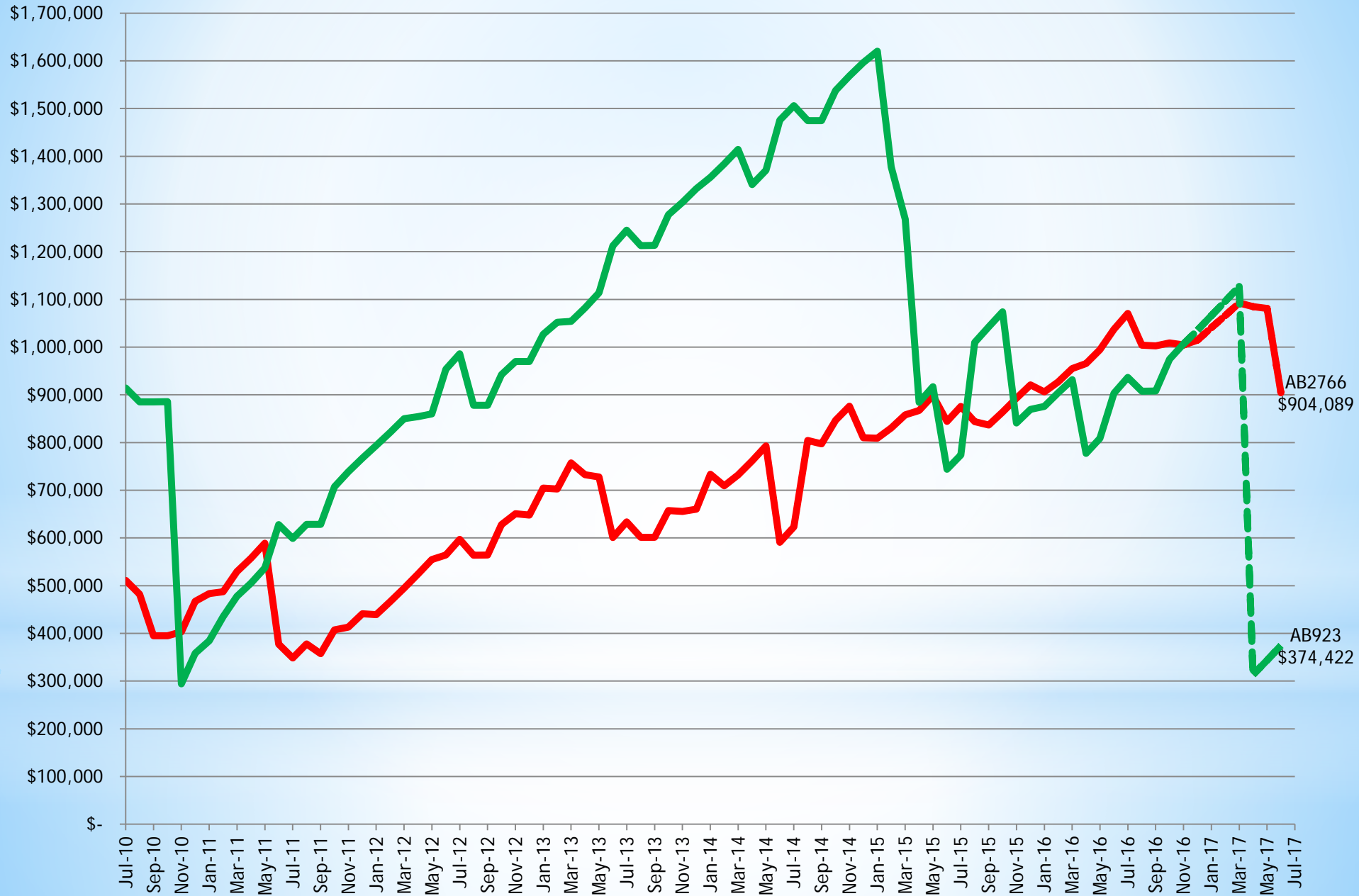
Equipment Provided to County and Local Agencies:

- 3 Snow blower repowers for EDC Transportation Division (\$43,239)
- 3 Snow blower repowers for City of South Lake Tahoe (\$21,758)

EDC AQMD Revenue Sources



Motor Vehicle Emissions Reduction Program Fund Balances - FY10/11 through FY16/17



Future Projects



E-Gardening Equipment



Residential EVSE



Apple Hill Shuttle



Path - Pioneer School to Pioneer Park



Placerville PD Electric Motorcycle

Summary

- ✓ EDC exceeds the State and federal Ozone Standards.
- ✓ Clean Air Act requires nonattainment Districts adopt and implement plans to achieve standards in cost effective manner at the earliest practicable date.
- ✓ 89% of ozone precursor NOx emissions in EDC are from motor vehicles.
- ✓ With AB2766 and AB923 the State established mechanisms to fund MVER work by local Air Districts.
- ✓ By Resolution the Board has enacted the funding mechanisms.
- ✓ AQMD staff have implemented many MVER projects and State has implemented fuel formulation and vehicle emission standards.
- ✓ Ozone levels have been declining and with further emission reductions the standards will be attained.

Questions / Comments?

