

# El Dorado County Air Quality Management District

## Motor Vehicle Emission Reduction Program



# 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

# ***Federal Ozone Nonattainment Classifications***

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

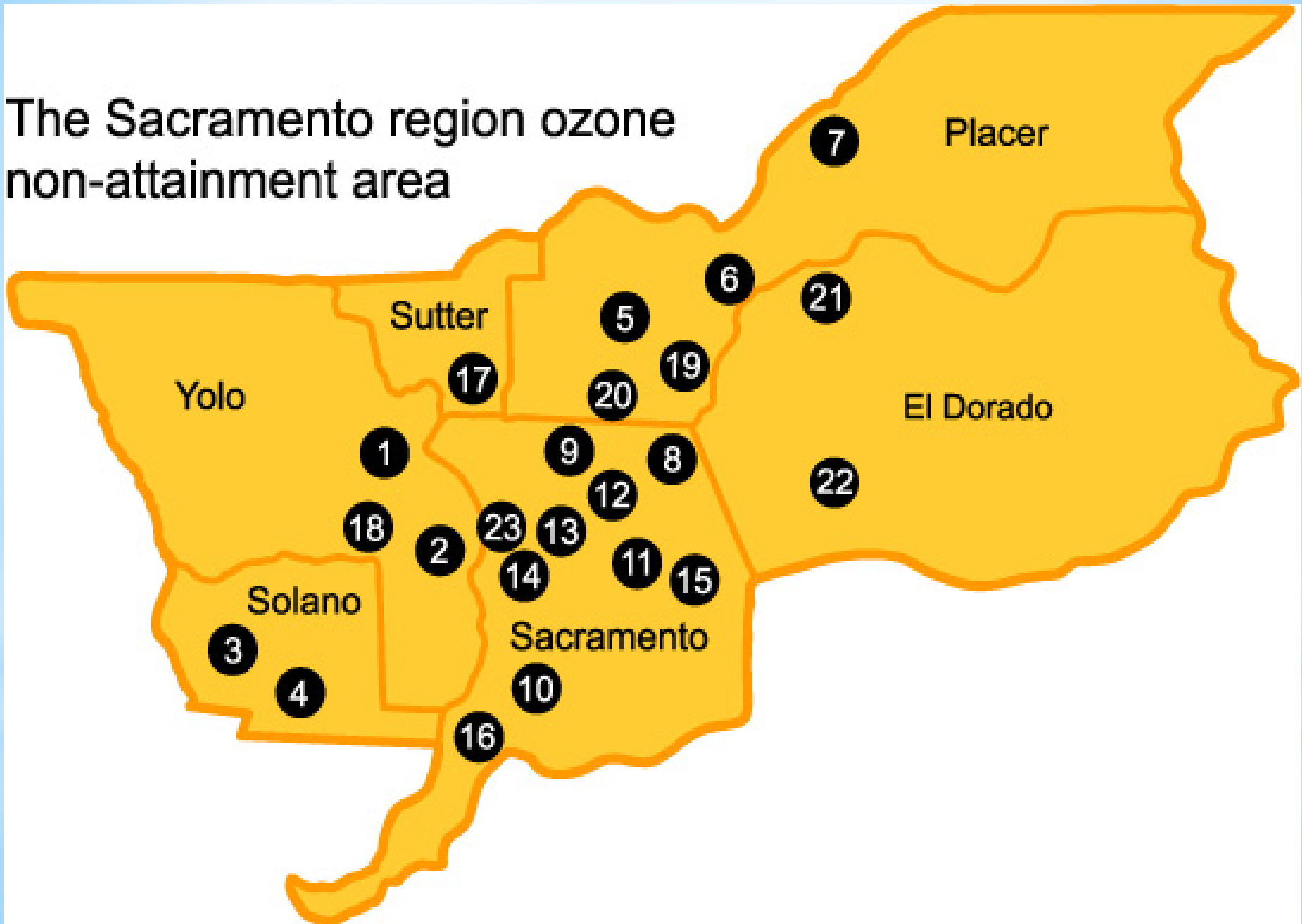
**Moderate** - Area has a design value of 0.086 up to 0.099 ppm.

**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

# The Sacramento region ozone non-attainment area



# Ozone Generation



OXIDES OF  
NITROGEN

+



VOLATILE ORGANIC  
COMPOUNDS

+



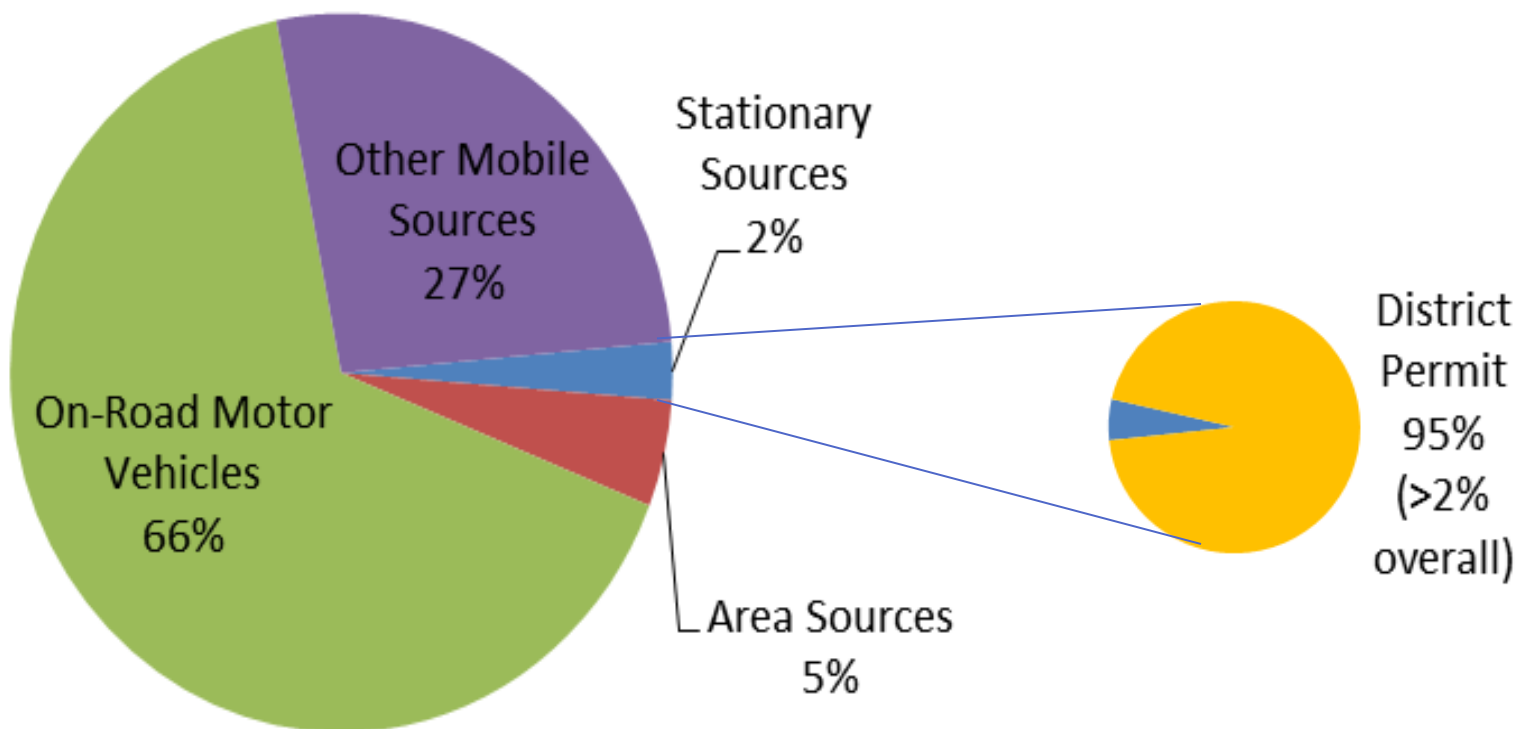
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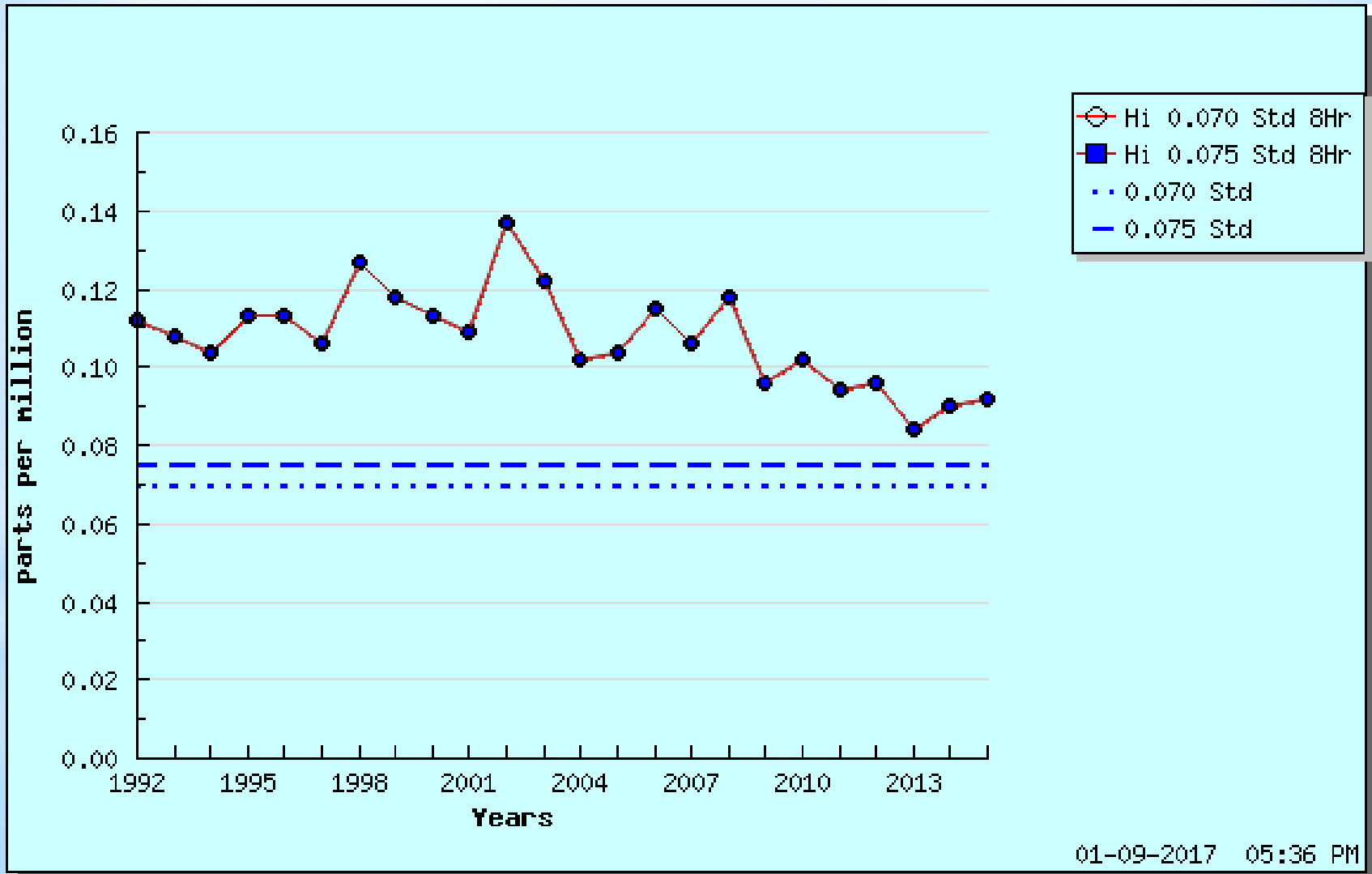


GROUND-LEVEL OZONE  
(SMOG)

## 2012 NOx Emissions (7.29 tpd)

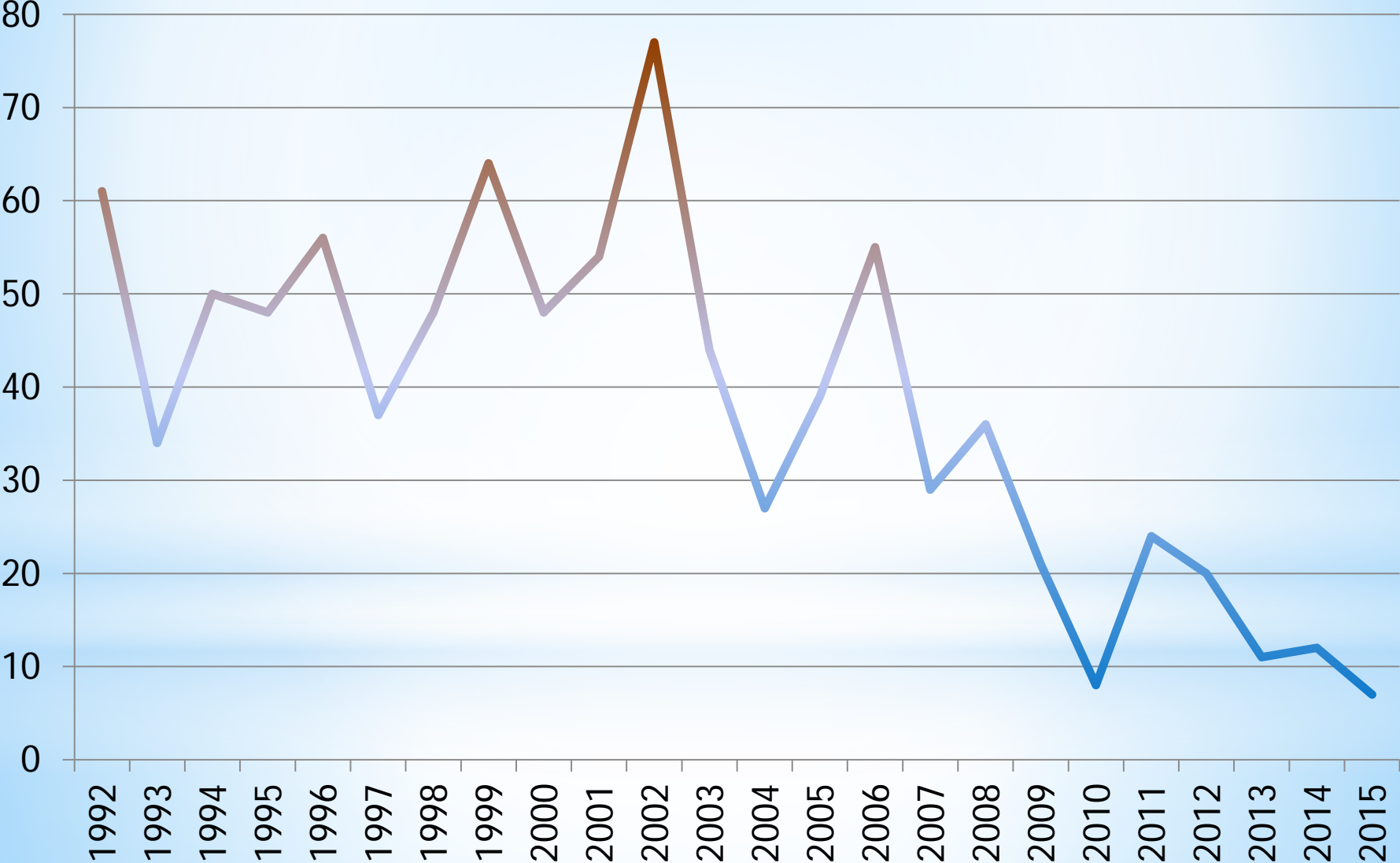


# Ozone Reduction Progress



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# Number of Days that Exceeded National Standards

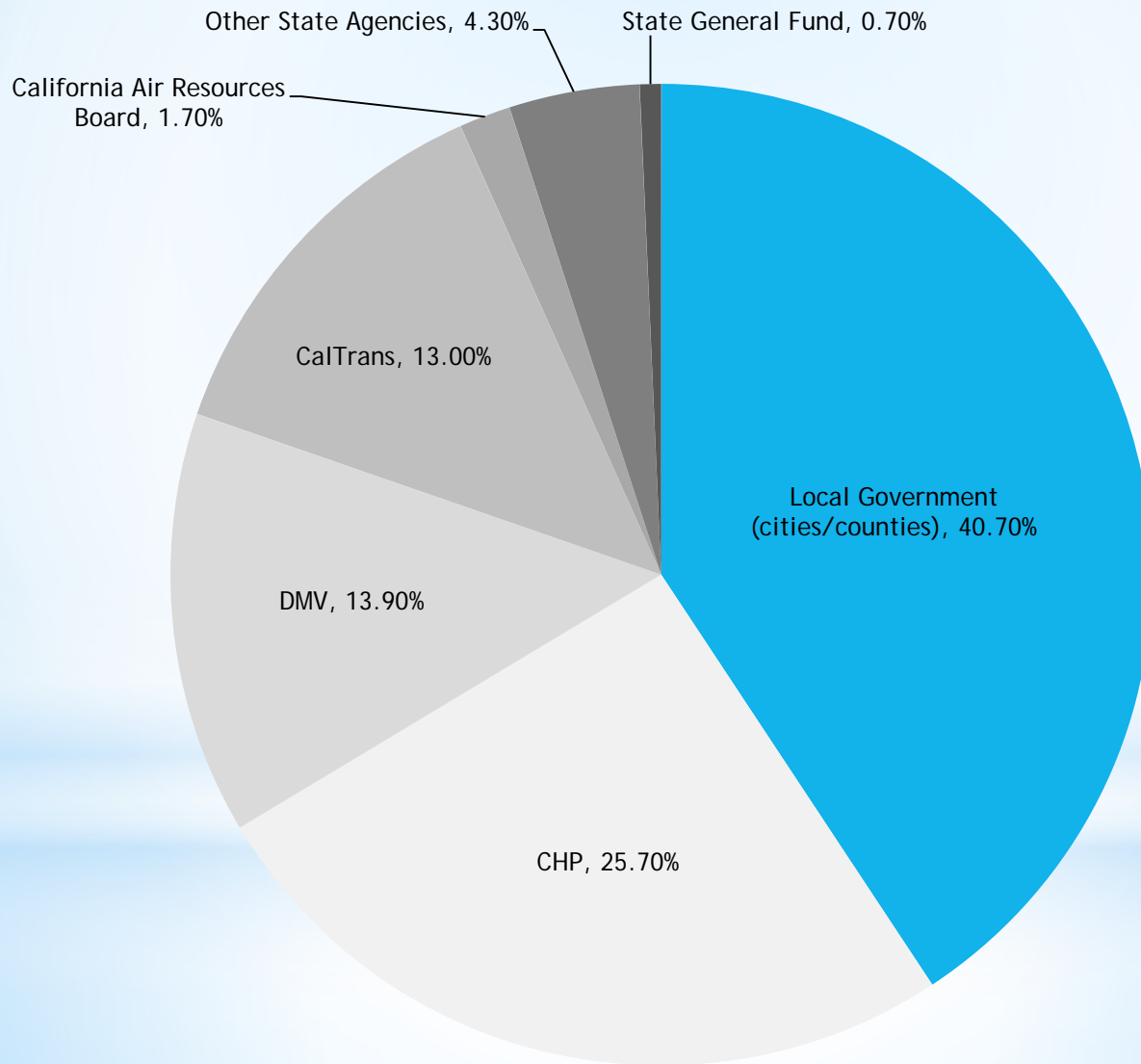




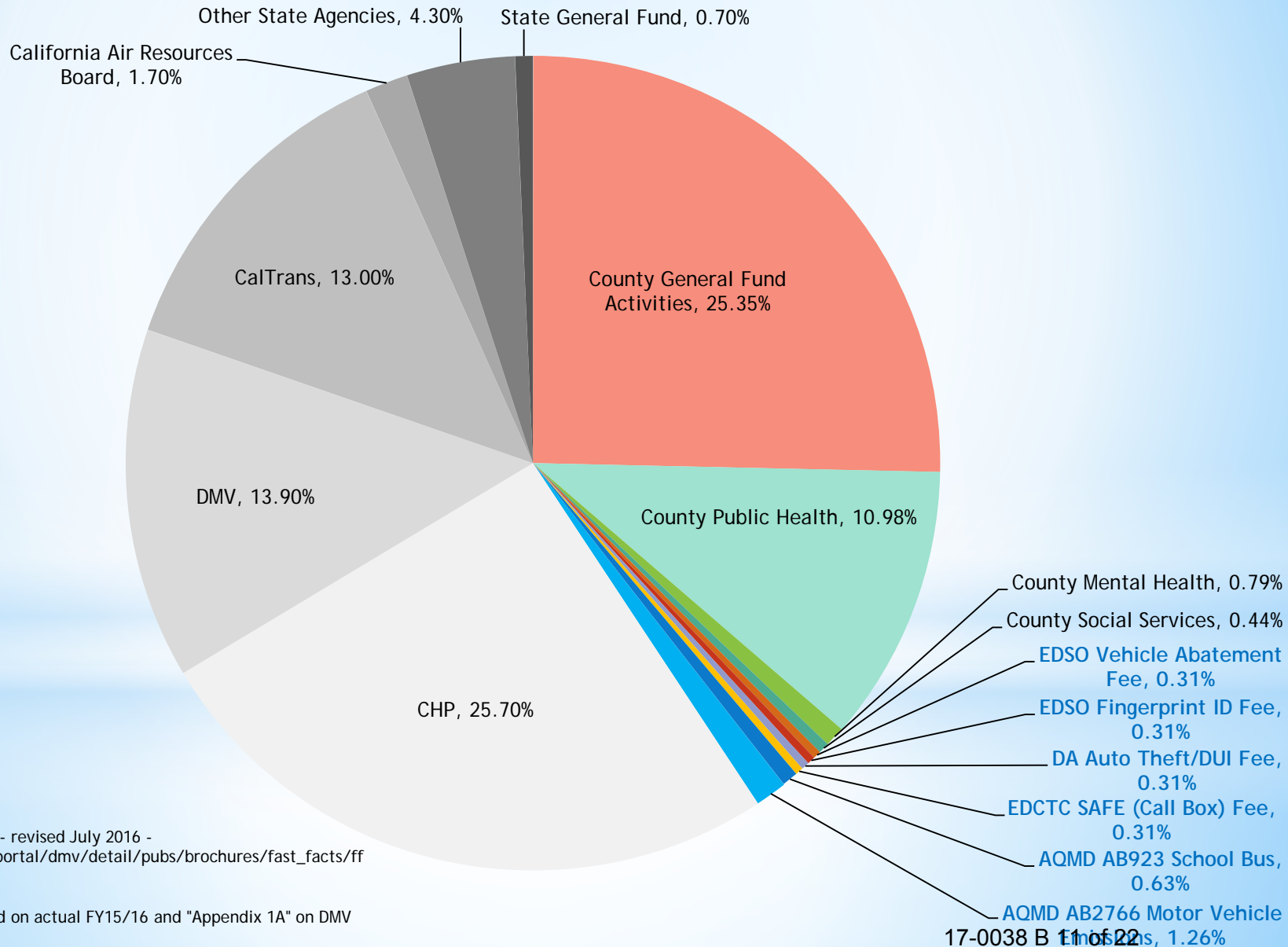
# MVER Funding History

- 9/30/90 - State AB2766 allowing Air Districts to collect fees through DMV vehicle registration for motor vehicle emission reduction project.
- 6/19/91- Resolution 209-91 adopted by the County Air Pollution Control Board (Board), directing the DMV to collect \$2 (pursuant to AB2766) for use by AQMD to reduce emissions from motor vehicles
- 3/15/94 - Resolution 70-94 adopted by the Board, directing the DMV to collect an additional \$2 (pursuant to AB2766) for use by AQMD to reduce motor vehicle emissions.
- 9/23/04 State AB923 allowing Air Districts to collect fees through DMV vehicle registration for heavy duty diesel vehicle NOx reduction projects.
- 3/21/06 - Resolution 079-2006 directing DMV to collect \$2 for heavy duty diesel vehicle NOx reduction projects.

# DMV Fee Distribution



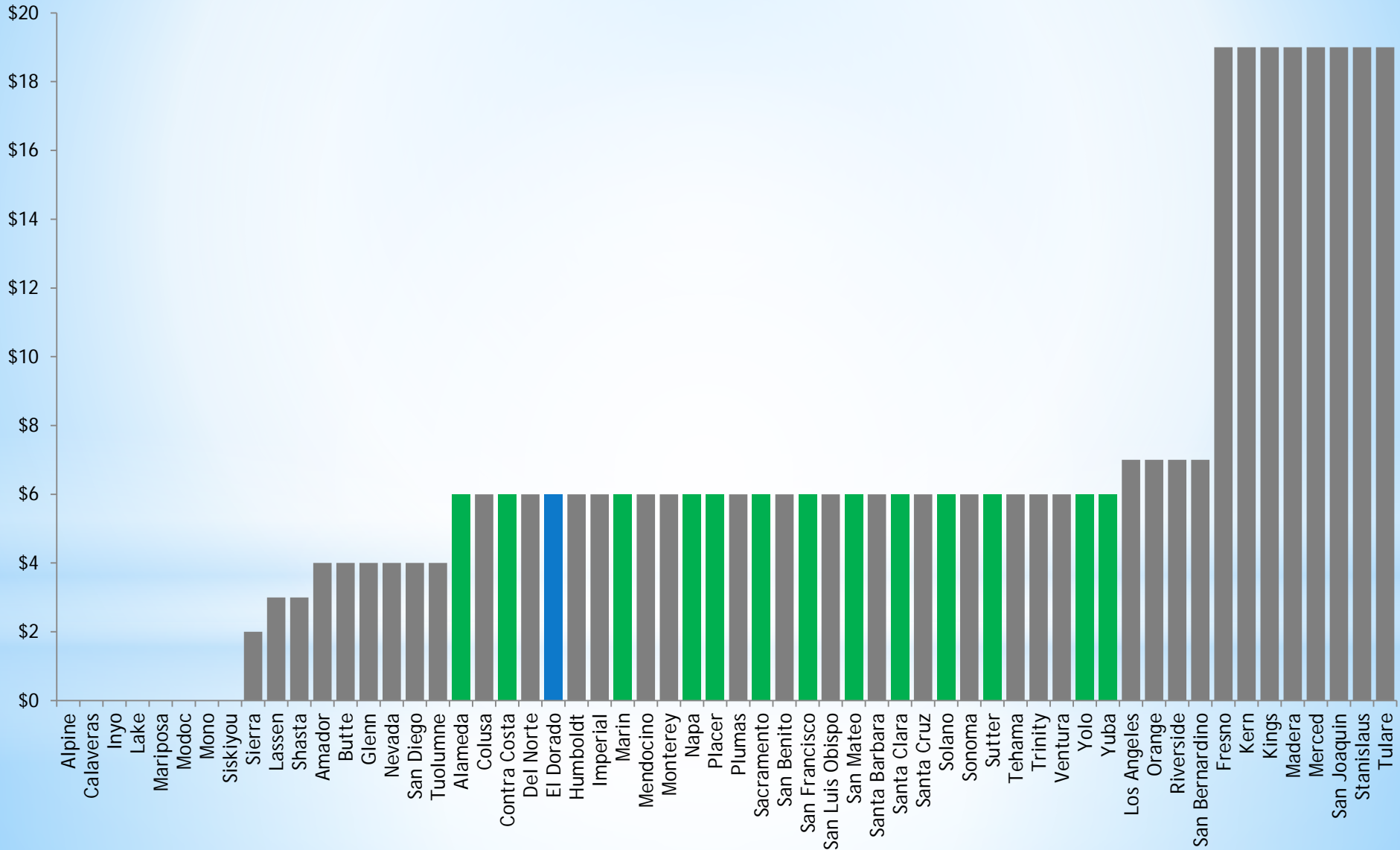
# DMV Fee Distribution



Per California DMV website - revised July 2016 -  
[https://www.dmv.ca.gov/portal/dmv/detail/pubs/brochures/fast\\_facts/ffvr34](https://www.dmv.ca.gov/portal/dmv/detail/pubs/brochures/fast_facts/ffvr34)

Local fund breakdown based on actual FY15/16 and "Appendix 1A" on DMV website -

# AQMD MVER Funds by County



# 2766 Infrastructure Projects

- Park and Ride facility at Highway 50 / Cambridge Road.
- Sidewalk construction for Sierra Elementary School.
- Bike path on easement between EDH Blvd and Silva Valley Parkway
- Bike lanes on Cameron Park Drive
- Smart Routes to School ADA curb ramp improvements near Oak Ridge High School
- Solar LED lighting at eight El Dorado Transit bus stops
- Bayne Road grading and chip sealing of 2.5 miles of unpaved road.
- Mosquito Road Multimodal Transportation facility Expansion, City of Placerville
- Electric vehicle charging stations at:
  - Mosquito Road multimodal transportation facility.
  - Camino and Pollock Pines gas stations
  - County owned and leased facilities



# 2766 Community Projects

- Shuttles:
  - El Dorado County Fair (9 years)
  - American River Coloma (9 years)
  - American River Music Festival (6 years)
  - Apple Hill (6 years)
  - Spare the Air - Free El Dorado Transit services during STA days (3 years)
  - Stay and Play/Chamber of Commerce/Gold Panning Championship (3 years)
- Spare the Air education outreach program (7 years)
- Residential Chipping (El Dorado Fire Safe Counsel and Meeks Bay Fire) (4 years)
- Bike Friendly 50 Campaign promoting safe cycling in the Cameron Park and El Dorado Hills communities (2 years)
- Smart Routes to School bike, walk, bus & carpool audits at 3 county schools, brochures production and website development



# Community & Infrastructure

## EV Purchase/Lease Incentive to County Residents:

- Reduces vehicle emissions
- Optimizes use of HOV lanes on highway 50



# 2766 Local Agency Projects

## Equipment/Retrofits Provided to Local Agencies:

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



## Equipment/Retrofits Provided to the County:

- Two Street Sweepers to DOT
- Diesel retrofits for 34 on-road DOT vehicles
- Electric motorcycles to Parks/EDSO
- Hybrid, Plug in hybrid and electric vehicles for County fleet (2766 and CMAQ)



# Savings to County due to AB2766 Funding of Projects

## *\$391,000+ in Savings to General Fund Departments:*

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

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

- \$342,111 DOT Diesel Retrofit Funding projects - 2008-2012
- \$206,999 Bayne Road chip seal project - 2013
- \$203,236 DOT street sweeper purchased - 2009
- \$190,520 DOT street sweeper purchased - 2011
- \$91,641 Cameron Park Drive bike lane project - 2015
- \$34,500 EDH/Hwy 50 Pedestrian Overcrossing project planning - 2009
- \$25,000 SMUD easement Bike Trail project - 2011
- \$23,267 Local match for purchase of CNG Paratransit Vehicle for Tahoe - 2004
- \$22,233 Countdown Pedestrian Signals Project - 2008
- \$17,128 Harvard Way Bike Path project - 2005
- \$7,689 El Dorado Hills Boulevard Bike Path project - 2005

# 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 by matching LESBP (\$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 the County and Local Agencies:

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

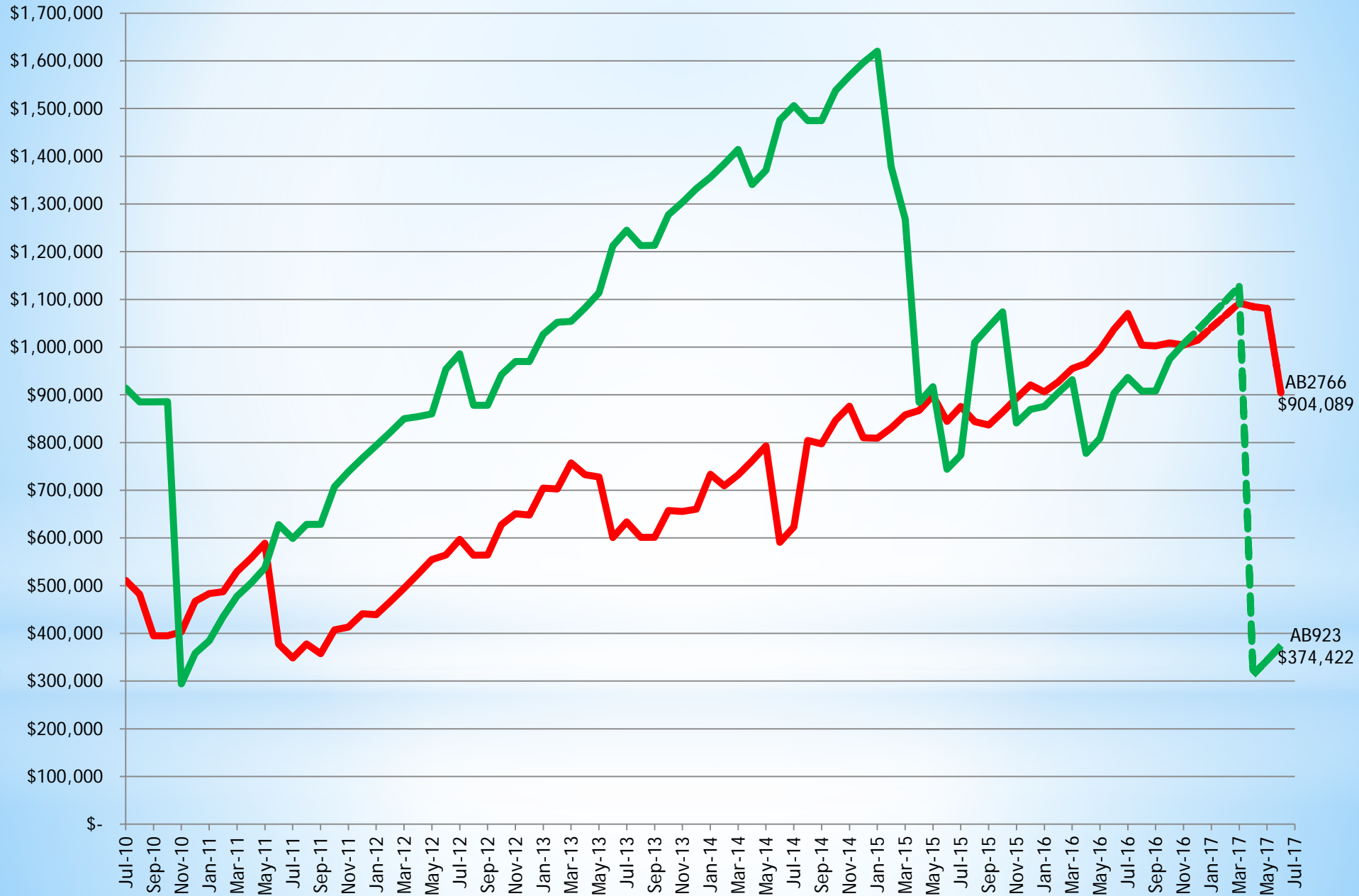
# Future MVER Projects



**Take a Ride on the Apple Hill® Shuttle on October Weekends**  
Shuttle service funded in part by a Grant from the El Dorado County Air Quality Management District.



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



# Summary

- EDC exceeds the State and federal Ozone Standards
- Districts must adopt and implement plans to achieve standards in a cost effective manner at the earliest practicable date.
- <89% of ozone precursor NOx emissions are from motor vehicles
- With AB2766 and AB 923 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
- Ozone levels have been declining and with further emission reductions the standards will be attained

**Questions / Comments?**