

ARB Mobile Source Emissions Inventory Research August 31, 2009

Research Underway

- On-Road
 - Truck activity field study
 - ARB In-house, Ongoing
 - Freeway traffic activity tool
 - UC-Irvine, \$230,000, Late 2010
 - Mexican truck activity study
 - \$100,000 from USEPA, Early 2011
 - Freight model
 - Univ. Delaware, \$200,000, Early 2010
- Off-Road
 - Survey of agricultural off-road equipment
 - CSU-Fresno, \$175,000, Mid 2010
 - Off-road equipment deterioration factors
 - UC-Riverside, \$300,000, Mid 2011
 - Locomotive activity update
 - UC-Davis, \$161,000, Late 2009
 - Off-Road ethanol permeation
 - Southwest Research, \$500,000, Mid 2010
 - Survey of recreational equipment activity
 - CSU-Sacramento, \$100k, Mid 2010

Research Gaps

- Forecasting
- Regional truck VMT and speed by truck category
- Seasonal and temporal truck activity
- Agricultural trucks
- Weekend activity for on-road vehicles
- Fraction of travel on non-freeways (arterials and local streets)

Potential CCOS Projects

- Scoping study for integrated economic forecasting (\$150,000)
- Truck activity data collection by region, season, and truck category (\$650,000 total)
 - Through and regional traffic
 - Local traffic
 - Agricultural trucks
- Development of gridded truck inventory from county-level data (\$150,000)
- Updated weekend travel modeling adjustment factors (\$50,000)
- Bottom-up construction equipment activity factors (\$100,000) – possibly underfunded