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