Outline

- Introduction
- Major Programming Improvements
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  - Default Emissions Mode
  - Emissions Rates Mode
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Introduction

- EMFAC is California’s on-road motor vehicle emissions inventory model
  - It has a long history
  - Many improvements have been made over time
- EMFAC2011 utilized new programming techniques that have been fully implemented in EMFAC2014
Major Programming Improvements

- All-in-one package
  - Integrated LDV, HD, SG, & PL into one single model

- New modeling system makes it easier to
  - Update model code and associated data & methodologies
  - Incorporate and assess future new rules
  - Develop more detailed emissions inventories
    - With more detailed vehicle categories as compared to EMFAC2007
    - Output with emissions by hour
    - Output by cat, non-cat
  - Transfer output to other databases/tools
EMFAC2014 Overview

New EMFAC2014 Run

Emissions Mode
  - Default Activity
  - Custom Activity

ER Mode
  - PL
    - Load Custom Activity
    - Custom EI

Default EI
  - Default Activity Template

Generate Template
  - Custom Activity Template

Load Custom Activity
  - ER
Emission Rates

New EMFAC2014 Run

Emissions Mode

Default Activity

Custom Activity

ER Mode

PL

Load Custom Activity

Custom EI

Custom Activity Template

Generate Template

Default EI
Custom Activity Template

New EMFAC2014 Run

Emissions Mode

Default Activity

Custom Activity

Custom Activity Template

Generate Template

Default EI

Load Custom Activity

Custom EI

ER Mode

PL

ER
Custom Activity Emissions Inventory

New EMFAC2014 Run

Emissions Mode

- Default Activity
  - Default EI
  - Custom Activity Template

- Generate Template

Custom Activity

- Load Custom Activity
  - Custom EI

ER Mode

- PL
  - Load Custom Activity

Custom EI

ER
For Additional Information

- Join MSEI email list at http://www.arb.ca.gov/listserv/listserv_ind.php?listname=msei
- Attend training webinar (date to be determined)
- Contact EMFAC team at EMFAC2014@arb.ca.gov