MOVES Development Plans

MOVES Workshop
June 2011

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MOVES Working Schedule

Late 2011  MOVES2010b
- Performance and usability improvements
- New features
- No changes to emission rates
- Not a new “version” of MOVES

Early 2013  MOVES2013
- More performance and usability improvements
- More new features
- Incorporate new vehicle emission standards
- Improvements to MOVES emission rates
- A “new version” from a policy perspective
Late 2011

MOVES2010B
Performance Improvements

- Faster algorithms reduce runtime, especially for MOVES generators
- Improved ability for MOVES runs in alternate environments:
  - On a grid of computers
  - On the “cloud”
  - Using Linux
- Individual runtimes will vary, depending on equipment, configuration and the type of run
Planned Additional Features

- Ability to calculate Extended Idle emissions for county-level SCC rates output
- Ability to calculate refueling emissions as emission rates-per-distance
- Add Nitrous Acid (HONO) output needed for air quality models
Improved Interface

- Better error checking and warnings in GUI and importers
- New Project-Level post-processing scripts installed with MOVES
Early 2013

MOVES2013
MOVES2013 Plans

- New data on fuel effects
  - EPACT study
  - Fuel sulfur study
- New data on vehicle evaporative emissions
- New data on base emission rates
MOVES2013 Plans (cont.)

- Incorporate new vehicle emission standards
  - HD GHG
  - LD GHG
  - Tier 3
- Additional features and usability improvements
  - More air toxics
  - Other?
Feedback

- Want feedback from MOVES users on what new features are highest priority
- Day 3 of this workshop includes detailed discussion on this topic
- Suggestions are always welcome at mobile@epa.gov