

MOVES2010 Errata/Information Sheet

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Assessment and Standards Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

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December 22, 2009

This table lists substantive errors and concerns that have been identified for MOVES2010. Some of the items listed here are errors that we intend to fix at a later date. Others items are not errors, *per se*, but areas where the MOVES design may not match user expectations.

If you find problems with MOVES that are not on this list, please let us know by emailing the MOVES team at mobile@epa.gov. We plan to update this list as needed. Thank you for helping us improve the MOVES model.

Problem Reported	Error or information item?	Suggested User Action
1. Default vehicle miles traveled (VMT) projections may not match VMT projections used in other EPA models (such and the National Mobile Inventory Model, NMIM).	Information	NA
2. There are check boxes on the “Pollutants and Processes” panel for methane for the Evaporative Vapor Venting, Evaporative Permeation and Evaporative Fuel Leak processes, even though the emissions are always negligible.	Information	None
3. When making a retrofit parameter file for importing for the On Road Retrofit Strategies panel, you must not use the PollutantID, ProcessID, FuelTypeID or SourceTypeID numbers. You must use the text names for these parameters.	Information	See user guide for detailed instructions.
4. In Project Level analysis, the user can enter a single average speed. Entering an average speed of “zero” assigns all activity to the “idle” operating mode bin. However, the MOVES “idle” operating mode bin includes some operation at speeds near, but not equal to, zero. As a consequence, MOVES will estimate non-zero brakewear and tirewear emissions for motionless idling vehicles.	Information	When estimating brakewear and tirewear for idling vehicles that are always completely motionless, either do not request tirewear and brakewear, or replace the MOVES output associated with this activity with values of zero. Note, this is not a problem for non-operating parked vehicles or “Extended Idling” vehicles.

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5. It has been reported that importing data from spreadsheets using the County Data Manager or the Project Level Data Manager sometimes does not result in a green check in the graphical user interface, even though there appear to be no problems with the imported data and MOVES runs successfully. We have not yet been able to identify the cause of this anomaly.	Potential Error	Users should remain cautious when using databases that indicate a red "X" for any of the input tabs, since other problems, such as incomplete data, will also prevent a green check from appearing. If necessary, users can export the imported data or examine the user database tables directly using the MySQL Query Browser to assure that the data in the database is appropriate and complete.
6. This problem is associated with #5 above. When using the Project Level Data Manager misleading results may occur when entering an Operating Mode Distribution if the Links information is not correct.	Potential Error	Users should make sure the Links tab is green. When filling out a run specification make sure all of the chosen road types are present in the Project Level.
7. When computing emission rates, the portion of evaporative emissions that occur while vehicles are running is reported only in the RatePerDistance table. However, this table is not populated unless a Running Exhaust process is also selected.	Error	When computing emission rates for evaporative processes, always select at least one Exhaust Running emission process.
8. If Custom Domain is chosen, the Zone Road Activity tab in the County Data Manager may have an erroneous green check even though no data has been imported.	Error	Users should check this tab to make sure that it includes correct data: a file with SHOAllocFactor = 1 for each Road Type.
9. The Extended Idle process does not produce records for Benzene, Ethanol, MTBE, Formaldehyde, 1,3-Butadiene, Acetaldehyde or Acrolein even though there are check boxes for these pollutants in the Pollutants and Processes Panel.	Error	If the user requires results for these pollutants for the extended idle emission process, the user will need to calculate these pollutants manually using the results for Total Gaseous Hydrocarbons and Methane.

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10. In the Summary Reporter, if the output data is disaggregated by day or hour, the output database will contain results for only two days in each month - a weekday (dayID 5) and a weekend-day (dayID 2). In this case, Summary Reporter should not be used to display results for a month or year, since the current code erroneously simply sums these two days together.	Error	The user should distinguish by dayID in the report and then externally weight the result according to the type of day to see meaningful result for a month (e.g. 22 weekdays and 9 weekend-days in a 31-day month) or year (e.g. 261 weekdays and 104 weekend-days in a 365-day year).