

4.6.1 Sector Description

The four sectors for on-road mobile sources include emissions from motorized vehicles that are normally operated on public roadways. This includes passenger cars, motorcycles, minivans, sport-utility vehicles, light-duty trucks, heavy-duty trucks, and buses. The sectors include emissions from parking areas as well as emissions while the vehicles are moving.

SCCs starting with 22010 define the light duty gasoline vehicles including motorcycles, with the exception of SCCs starting with 220107, which define the heavy duty gasoline vehicles. SCCs starting with 22300 define the light duty diesel vehicles, with the exception of SCCs starting with 223007 that define the heavy duty diesel vehicles.

The 2008 NEI v1 and past NEIs included emissions from the MOBILE6 model. The 2008 NEI v2 and v3 are the first NEI to include emissions from the MOVES model.

4.6.2 Sources of data overview and selection hierarchy

All 2008 NEI on-road estimates were calculated by EPA using MOVES, except in California. Table 52 shows the selection hierarchy

Table 52: 2008 NEI on-road mobile selection hierarchy

Priority	Dataset Name	Dataset Content
1	2008_EPA_MOBILE	EPA's MOVES2010b-based estimates
<u>Exception:</u> California		
1	EPA Correction Dataset – Onroad	Overwrites submitted emissions that do not conform to pollutant and emissions types expected
2	Responsible Agency Dataset	Submitted on-road emissions

California submitted emissions to the NEI based on the EMFAC model, which is a separately EPA-approved model to be used only in California. Because California's emissions were calculated with a different model, the emissions are not congruent with the rest of the country in terms of SCCs used, pollutants present, and emission type coverage.

During the 2008 NEI development cycle for on-road mobile emissions, EPA requested that S/L/T agencies submit NMIM inputs for use in an EPA 2008 NEI NMIM run to generate MOBILE6-based emissions. At the start of the 2008 NEI cycle, the MOVES model had not yet been released for criteria pollutants and the input formats were not stable, and so it was not possible for EPA to collect the MOVES input formats or MOVES-based emissions. A summary of the NMIM input submittals and EPA's conversion of VMT to inputs is described in Section 3.2.3 of the project documentation for EPA's mobile data (E.H. Pechan, 2011). EPA used the NMIM inputs to update the EPA NMIM input database. If an agency submitted on-road emissions (which includes VMT data) rather than NMIM inputs, then EPA compiled the VMT from this submittal for use in EPA's NMIM run. EPA used the NMIM database to create 2008 on-road emissions using NMIM, which were used in version 1 and 1.5 of the 2008 NEI along with any emissions submitted by agencies that did not provide NMIM inputs.