

To assist with conducting a health risk assessments for surface streets, freeways, and/or onsite travel, the District has developed a database and constructed an Excel spreadsheet to estimate emissions from roadway travel.

The database has a single form that allows for the selection of emission factors based on the year and the county in which a project will operate. The form allows for 5 basic reports to be generated.

1. Weighted Average – County wide average emission factor based on Min and Max speeds selected
2. Onsite Travel – Specific emission factors or average based on vehicle class, fuel, Min and Max speed selected
3. Adjusted Factor – is used to determine the VMT and tons of emissions from the selected year to 2035. This report is used to determine how emission factors will change over time.
4. Heavy Duty Idling – This report will provide the idling emission factors for heavy duty vehicles based on the year and county selected.
5. Lt/Med Duty Idling – This report will provide the idling emission factors for light and medium duty vehicles based on the year and county selected.

Please note that the emission factor data was taken from the latest EMFAC2011–SG inventory files. The idling emission factors were absorbed directly from the files provided by CARB. No effort was made to run the EMFAC2011-LDV for those emission factors reported a zero as indicated by CARB in their instruction.

EMFAC Report Screen Close Form

Reports generated are based on EMFAC2011 Data.

Year **Region**

2014 Fresno (SJV)

Generate Speed based EFs (g/mile) -Weighted Average

Minimum Speed **Maximum Speed** Freeway / Surface Streets

5 75 Generate Data

Generate Average EF (g/mile) - EMFAC2011 Data. Onsite Travel

Minimum Speed **Maximum Speed** **Vehicle Class** **Fuel Type**

5 15 T7 DSL Generate Data

Generate 70 Year Adjustment Factor Data Adjustment Factor

Generate PM10 Data Generate TOG Data

Generate Diesel Vehicle Idling Emission Factors (T7 / T6/ OBUS / SBUS)

Generate Idling Data Heavy Duty Idling

Generate Vehicle Idling Emission Factors other than (T7 / T6/ OBUS / SBUS)

Generate Idling Data Lt/Med Duty Idling

Details on using the District Vehicle Emission Calculator spreadsheet can be found in Section 6 of the District's "EMFAC 2011 On-Road Emission Factor Estimator" manual. Please note once CARB releases the new version of EMFAC XXXX this database will be updated to reflect changes in emission factors.