

## Congestion Mitigation and Air Quality (CMAQ) FHWA Toolkit and Emissions Form Guidance

Use the FHWA Emission Calculator Toolkit whenever possible and only use MDOT Forms when an FHWA tool is not available.

When using the MDOT forms, use the CMAQ Emissions Factors Tables (Provided by SEMCOG-to be used Statewide) available on the MDOT CMAQ website. Use the emissions factors fitting the estimated life of your project.

FHWA Emission Calculator Toolkits and MDOT Emission Forms can be found at [www.michigan.gov/CMAQ](http://www.michigan.gov/CMAQ)

<b>Emissions Form(s) Project Type</b>	<b>FHWA Toolkit / Emissions Form</b>
Dedicated Turn Lanes	FHWA Traffic Flow Improvement Tool
Signal Interconnects	FHWA Traffic Flow Improvement Tool
Signal Optimization or Actuation	FHWA Traffic Flow Improvement Tool
Roundabouts	FHWA Traffic Flow Improvement Tool
Non-Motorized Pathway	FHWA Bicycle and Pedestrian Improvement Tool
Intelligent Transportation System (ITS)	<b>Form 2612</b>
Traffic Operations Centers Operations	<b>Form 2616</b>
Travel Demand Management Program	<b>Form 2619</b>
Park and Ride Lots	<b>Form 2613</b>
Rideshare	FHWA Carpooling and Vanpooling Tool
Operation of New Public Transit Services	FHWA Transit Bus Service and Fleet Expansion Tool
Public Transit Service or Fleet Expansion	FHWA Transit Bus Service and Fleet Expansion Tool
Bus Retrofits or Replacements	FHWA Transit Bus Retrofits and Replacement Tool
Diesel Retrofits (Non-Transit)	FHWA Advanced Diesel Truck/Engine Technologies Tool
Alternative Fuels and Vehicles	FHWA Alternative Fuels and Vehicles Tool
Diesel Idle Reduction Technologies	FHWA Diesel Idle Reduction Technologies Tool

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This guidance document will be updated as MDOT forms are replaced by new calculators in the FHWA Toolkit