

MSEI - Modeling Tools - EMFAC Software and Technical Support Documentation

IN THIS SECTION

CONTACT

Mobile Source Emissions Inventory Support

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EMFAC2021 (U.S.
EPA Approved)

- EMFAC2021 (v1.0.2) Public Release Notice - 5/2/22
- EMFAC2021 (v1.0.1) to (v1.0.2) Updates - 5/2/22
- EMFAC2021 Software Installation Package (v1.0.2) - 5/2/22
- EMFAC2021 (v1.0.1) Public Release Notice - 4/30/21
- EMFAC2021 Software Installation Package (v1.0.1) - 4/28/21
- EMFAC2021 (v1.0.0) to (v1.0.1) Updates - 4/28/21
- EMFAC2021 PL Handbook - 3/26/21
- EMFAC2021 Technical Document - 4/28/21
- PHEV Start Analysis Draft Memo - 3/26/21
- Heavy-Duty EMFAC Deterioration Rate Updates - 1/25/21
- EMFAC2021 (v1.0.0) Public Release Notice - 1/15/21
- EMFAC2021 Heavy-Duty Vehicle Accrual Rates with Addendum - 2/4/21
- EMFAC2021 User's Guide

EMFAC2021 and
EMFAC2017 Interim
Off-Model
Adjustment Factors
for the Heavy-Duty
Inspection and
Maintenance
Program

- EPA Approval Letter (5/26/23)
- Appendix A: EMFAC2021 Interim Adjustment Factors (5/26/23)
- Appendix B: EMFAC2017 Interim Adjustment Factors (5/26/23)

EMFAC2017 (U.S.
EPA Approved)

- EMFAC2017 Software Installation Package (v1.0.3)
- EMFAC2017 Update (v1.0.3) Public Release Notice
- EMFAC2017 Software Installation Package (v1.0.2)
- EMFAC2017 Update (v1.0.2) Public Release Notice
- EMFAC2017 User's Guide
- EMFAC2017 PL Handbook
- EMFAC2017 Technical Documentation

EMFAC2017 Updates Updates from v1.0.2 to v1.0.3

- Fixed a bug in custom activity (SG) mode related to multi-year speed profiles entries
- Fixed a bug related to methane (CH4) speciation for gasoline vehicles

Updates from v1.0.1 to v1.0.2

Updates Impacts

	Mode	Vehicle	Model Year	Calendar Year	Pollutant
Update to MY2022—2024 CO2 emission rates	All	LDV	2022—2024	2022—2050	CO2, Fuel
Update to UBUS VMT	All	UBUS	All	All	VMT

EMFAC2017
Adjustment Factors

- Off-Model Adjustment Factors for Recently-Adopted Regulations
- Off-Model Adjustment Factors for Recently-Adopted Regulations (Appendix)

EMFAC2014
(U.S. EPA
Approved)

- EMFAC2014 Software Installation Package (v1.0.7)
- EMFAC2014 Update (v1.0.7) Public Release Notice
- EMFAC2014 User's Guide
- EMFAC2014 Technical Documentation, PL Handbook
- Comprehensive Table of EMFAC Topics

EMFAC2014 Updates From v1.0.1 to v1.0.7
 Updates

Updates	Impacts						
	Mode	Area	Vehicle	Model Year	Calendar Year	Pollu	
Added pre-1965 population from DMV to model year 1965	All	All	LDV	1965	2000-2008	All	
Added evaporative, and tire & brake wear emissions for pre-2000 model year electric vehicles in San Diego and Imperial counties	All	San Diego & Imperial County	LDA & LDT1	Pre-2000	2000-2043	HC,F TOG PM2	

Revised codes for Custom Activity to correctly scale emissions by speed fractions when multiple inputs are loaded	Custom Activity Batch Process	All	All	All	All	All
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Revised CO2 emission rates for LDT2 and MDV under Advanced Clean Cars (ACC)	Emissions	All	Gas LDT2 & MDV	>2022	>2022	CO2 SOx
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Excluded Auxiliary Power Systems (APS) from T7 idle emission rates	Emission Rates	All	T7	<2008	>2007	All
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