

Mobile Source Emission Reduction Strategies

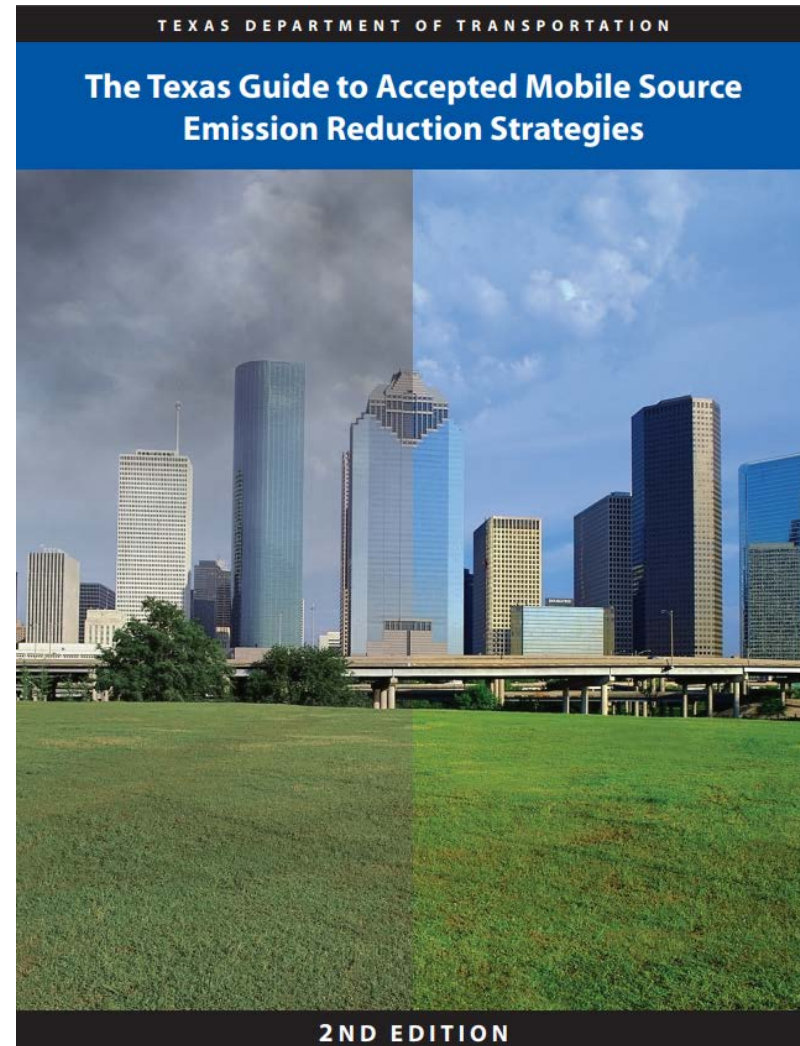
Texas Technical Working Group

June 06, 2019

Austin, Texas

Current Official Version

**2nd Edition
2007**



The vision for the MOSERS System

Documents, Data, and Tools

Module 1

Background Document

General information on transportation air quality

Module 2

Strategies and Emissions Equations Document

Module 3

MOSERS Tool and Activity Equations

Web-Based Integration



- Seamless updates
 - Emission rates
 - Documentation
- Agency accounts
- Supporting materials, training, etc.

MOSERS System Status Update

Module
1

Background
Document

Draft **Posted on AQPortal** for
Review by TWG members

Module
2

**Strategies
and
Emissions Equations**
Document

Draft **Posted on AQPortal** for
Review by TWG members

Module
3

MOSERS Tool

Draft limited release (**8 strategies**)
Posted on AQPortal for Review by TWG members

Emission Rates Table

Draft limited release (**7 Areas**)
Posted on AQPortal for Review by TWG members

Activity Equations
Document

In Progress/working draft
Being actively updated based on MOSERS Tool

MOSERS System Status Update

Draft MOSERS **documents** and **tool** are posted as downloadable files for Review by TWG members



Web-based documentation for 25 select strategies

Emission rates table posted as downloadable file and a database that the MOSERS tool pulls the necessary emission rates

MOSERS Tools and Documentation

Tools and documentation materials for the Mobile Source Emission Reduction Strategies (MOSERS)



Current Version (2007)



Draft MOSERS Tool



Draft 3rd Edition



The Texas Guide to Accepted Mobile Source Emission Reduction Strategies (2nd Edition)

This guidebook is an updated reference for new and experienced technical staff in metropolitan areas undertaking transportation/air quality planning to better understand and utilize mobile source emission reduction strategies as they seek to achieve attainment for NAAQS. It is also intended to serve as an introduction for transportation professionals in new nonattainment areas with little or no experience in transportation/air quality issues. The guide provides an overview of the transportation/air quality relationship, along with specific details about mobile source emission reduction strategies, and serves several functions.



Guidebook Improvement Process

A process diagram describing how to improve the MOSERS guidebook



Introduction Memorandum (2007)

Transmittal of "The Texas Guide to Accepted Mobile Source Emission Reduction Strategies, 2nd Edition"



Transit



Bicycle & Pedestrian



Infrastructure & Traffic Operations



Vehicle Activity & Technology



Travel Demand Management

1.1 System/Service Expansion

1.2 System/Service Operational Improvements

1.1 System/Service Expansion

Increase ridership by providing new rail system services and/or expanding bus services.

Description

Expansion of a transit system or service can include the addition of rail services through increased frequency or route extension. Bus or paratransit services can be expanded with new vehicles and/or route extensions.

Application

Large cities or communities with enough population density to support reasonably frequent transit service.

Emissions Equations

$$\text{Daily Emission Reduction} = A + B - C - D(\text{g/day})$$

MOSERS System Activity Timeline

FY 2014

Evaluation of state-of-practice

Developed recommendation for updating MOSERS

- Update of documents
- Developing a MOSERS tool for vehicle activity calculations

FY 2016

draft documents for initial TWG review

- Module 1: Background
- Module 2: Emissions Equations

Preliminary draft of MOSERS Tool for TWG review
6 strategies – calculation only

FY 2018

Modules 1 and 2 were updated based on recent changes to EPA website

Recommended moving all documentation to a web-based format to better address changes

MOSERS Tool

- Developed new user interface and added reporting and save as PDF capabilities
- Released a draft version to TWG for initial comments

Finalize and adopt Modules 1 and 2 documents

MOSERS Tool

- 25 strategies by the end of FY 2021 (18 by Aug 2020)
- Final Draft for review by TWG
- Additional capabilities per TWG input

Full integration to Texas AQ Portal

- All documentations converted to searchable web documents
- Convert and host user-generated emission rates
- Organizational accounts
- Support for submitting CMAQ project reports

FY 2020

FY 2021

FY 2015

Initial draft documents for internal review

- Module 1: Background
- Module 2: Emissions Equations

TWG Survey to identify the most common strategies for MOSERS Tool

Started developing MOSERS tool for 6 strategies

FY 2017

Updated draft documents based on TWG input

- Comments addressed
- New strategies added per TWG request

Updated MOSERS tool

- Expanded to 23 strategies
- Identified additional capabilities and user interface items per TWG discussion
- Documentation of methods

FY 2019

Draft Modules 1 and 2 for Final Review

Draft MOSERS Tool with 8 Strategies

- Emissions calculations added
- Fully functional user interface

Emission rate tables for 7 areas

Initial web integration (Texas AQ Portal)

- Emission rates loaded from the portal
- Sample documentation converted to web documents

MOSERS System

Implementation Plan

Modules 1 and 2

- Final draft release for comments
- TWG members have **1 month** to send in their comments (we will remind them weekly)
- Finalize the documents with comments
- Active MOSERS Sub-Committee members (FHWA, TxDOT, TCEQ, HGAC, NCTCOG) to meet to finalize the release and training
- September TWG meeting will ask for approval and public release/publication
- Training will be conducted in FY20

Module 3

- Initial limited release – 8 strategies
- TWG members have **1 month** to send in their comments (we will remind them weekly)
- Active MOSERS Sub-Committee members (FHWA, TxDOT, TCEQ, HGAC, NCTCOG) to meet to finalize the release and training
- We will finalize the Version 1 Tool for adoption/approval in September – including web-based documentation
- We commit to adding a minimum of 8 strategies each fiscal year
- Training will be conducted in FY20

Contact Information

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Questions and Comments

