

# MOSERS

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# TxAQ Portal

[txaqportal.org](https://txaqportal.org)

# 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

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](#)

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 **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.

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 **Guidebook Improvement Process**  

A process diagram describing how to improve the MOSERS guidebook

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 **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](#)

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[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 **Guidebooks** (2 modules)

## **Status Update**

### **Final draft versions**

release to TWG in Summer 2019 for final technical review

**Scheduled for final approval and adoption by TWG in FY2020**

# MOSERS Spreadsheet Tool

## Status Update

### The released draft version includes **8 strategies**

Strategy 1.1. Transit System/Service Expansion

Strategy 3.2. Bicycle and Pedestrian Programs – Option 1

Strategy 3.2. Bicycle and Pedestrian Programs – Option 2

Strategy 4.2. Trip Reduction Programs

Strategy 5.1. Traffic Signalization

Strategy 6.1. Park-and-Ride – New Facilities

Strategy 10.2. Controls on Heavy-Duty Vehicles

Strategy 12.1. Telecommuting

### **2 new strategies** will be in the next draft release (Summer 2020)

Strategy 2.1. Freeway HOV Facilities

Strategy 5.7. Shoulder Land Applications

# 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 (10 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
- 2 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 Draft 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

The **vision** for

# the **Texas Air Quality Portal**



A Centralized **Eco-System** for **All** Regulatory Transportation Air Quality Activities

- **A Distinct System/Brand**
- **Improved User Experience**
- **Search-based** content delivery
- Support different **types of contents**
  - Video
  - Documents & slides
  - Dynamic web-documents (MOSERS documentation)
  - Data analytics/dashboards
- Easy to add, maintain, and update content
- A secure central hub for **Conformity** and **CMAQ**
  - Partner agencies can **find, store, submit** data, documentation, tools, and reports

## Key Components

- TWG Materials Integration
- Reports & Trainings
- Data and Analytics
- Secured workspaces for partner Agencies
- Conformity System
- **Streamlined Content Management Portal**
- **MOSERS System**



# Welcome to the Texas Air Quality Portal

A centralized information hub for transportation air quality practitioners in Texas



## Conformity

Regulatory transportation emissions assessment



## MOSERS

MOBILE Source Emission Reduction Strategies



## Training & Outreach

Transportation air quality training and outreach materials



## Data & Analytics

Data and interactive analytics relevant to transportation air quality



## Technical Reports

A catalog of policy, technical analysis, conformity and inventory reports



## TWG

Texas Technical Working Group for Mobile Source Emissions