

Documentation of TTI's Transportation Air Quality Policy Analysis Activities

TWG Biannual Meeting
March 7, 2013

Overview

- <http://www.texastaqpa.org/>
- Requires a username and password to access
 - Username – twguser
 - Password – txtwg
- For information or questions on accessing the portal, email Megan Kenney of TTI (m-kenney@ttimail.tamu.edu)

Login Page

Transportation Air Quality Policy Analysis

Access to page...

Access to the portal is currently restricted to TWG members and others approved by TxDOT. To obtain a username and password, please email Megan Kenney, Texas Transportation Institute: m-kenney@ttmail.tamu.edu

LOGIN

User Name

Password

Login

Main Page/Features

The screenshot shows the main page of the Transportation Air Quality Policy Analysis portal. The header is dark teal with the title "Transportation Air Quality Policy Analysis" and "Compiled by Texas A&M Transportation Institute". Below the header is a navigation bar with several links: "HOME", "BY SUBJECT CATEGORY", "REPORTS AND KEYWORDS", "MENU OPTIONS", "SETTINGS", "LOGOFF", and "COMPENDIUM OF SUMMARIES". The "HOME" link is circled in red. The "MENU OPTIONS", "SETTINGS", and "LOGOFF" links are also circled in red. The main content area is light green and features a "Home" section with a "Summary" button and a "Details" button. Below this is a welcome message and a list of bullet points. Further down are sections for "Categories of Tasks..." and "Transportation and Air Quality Focus Areas...", each with an "Expand" button circled in red. At the bottom is a "User Guide..." section with a list of bullet points.

Transportation Air Quality Policy Analysis Compiled by Texas A&M Transportation Institute

[HOME](#) [MENU OPTIONS](#) [SETTINGS](#) [LOGOFF](#)

[BY SUBJECT CATEGORY](#) [REPORTS AND KEYWORDS](#) [COMPENDIUM OF SUMMARIES](#)

HOME

Home

Summary Details

Welcome to the Transportation Air Quality Policy Analysis Portal...

- Since 2000, the [Texas A&M Transportation Institute](#) has performed several studies and analyses in support of the Texas Department of Transportation (TxDOT) and the [Technical Working Group for Mobile Source Emissions \(TWG\)](#).
- This portal is a compilation of the findings from these air quality policy-focused tasks conducted as part of inter-agency contracts between TTI and TxDOT.
- This portal **will be updated on an annual basis** and made available to TxDOT and TWG members.

Categories of Tasks... [Expand](#)

Transportation and Air Quality Focus Areas... [Expand](#)

User Guide...

- This portal contains **task findings, summaries, and downloadable PDF files**.
- Tasks can be search **by subject category, keyword or a full list of reports**.
- Each task has a downloadable document of the summary and downloadable full report.
- A **combined report** is also available containing a compendium of summaries for each task.

Transportation and Air Quality Focus Areas

Transportation and Air Quality Focus Areas

Planning, Policy and Standards	<ul style="list-style-type: none">• State Implementation Plan, Greenhouse Gases/Climate Change, Analysis Procedures, Pollutants, Federal/State Regulations, Fuel Efficiency Standards, Clean Vehicles/Emissions Standards
Inventories and Conformity	<ul style="list-style-type: none">• Monitoring, Methodologies, Emissions Sources, Modeling, State Implementation Plan, Greenhouse Gases, Emissions Budgets
Emissions Factors	<ul style="list-style-type: none">• Technology, Fuels, Operational Conditions, Testing, Clean Vehicles/Emissions Standards
Emissions Impacts	<ul style="list-style-type: none">• Project-Level, Performance Measures, Monitoring, Health, Environment
Emissions Reduction Measures	<ul style="list-style-type: none">• New Technologies and Fuels, Behavioral Factors, Inspection/Maintenance, Alternative Modes, Land Use, Programs, Emissions Control Strategies
Implementation	<ul style="list-style-type: none">• Enforcement, Program Evaluation, Education and Outreach, Funding Priorities, Analysis Procedures
Data and Research Needs	<ul style="list-style-type: none">• Focus Areas Identified Above

Browse by Subject Category

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HOME MENU OPTIONS SETTINGS LOGOFF

BY SUBJECT CATEGORY REPORTS AND KEYWORDS COMPENDIUM OF SUMMARIES

1. PLANNING, POLICY, STDS BY SUBJECT CATEGORY

- Air Quality / Tpt Planning
- Equity - Emissions Budgets
- Emission Performance Measures
- New Directions - GHG...
- Non-Criteria Pollutant Impacts
- TWG Greenhouse Gas Update
- Diesel Inspection/Maintenance

2. INVENTORIES, CONFORMITY

- Extended Idling Emissions
- Statewide Air Quality Monitoring
- Donut / Rural Nonattainment

3. EMISSIONS FACTORS

- Clean Fuel/Engine Technology
- Effect of Speed Limits
- Employer-Based Programs
- Hybrid and Plug-In Vehicles
- Extended Idling Strategies

4. EMISSIONS IMPACTS

- Innovative Financing Methods
- CMAQ Project Selections
- Connectivity Emissions Impacts
- Impact of Mexican Trucks
- Impacts by Freight Mode
- Health Consequences
- Energy Efficient Vehicles
- Fuel Efficiency on Revenue
- Implications of Air Toxics
- School Bus Emissions

Tasks By Subject Category

This section...

- In the **left hand navigation column**, policy tasks are categorized into seven focus areas.
- Tasks within the focus areas** are viewable by clicking on the arrow adjacent to the focus area heading.
- Each task has a downloadable document of the summary and downloadable full report.

Search by Keyword

Transportation Air Quality Policy Analysis Compiled by Texas A&M Transportation Institute

HOME MENU OPTIONS SETTINGS LOGOFF

BY SUBJECT CATEGORY REPORTS AND KEYWORDS COMPENDIUM OF SUMMARIES

REPORTS AND KEYWORDS

Reports and Keywords

This Section...

- A **full list** of reports is presented in each of the subject categories.
- The list **can be filtered** by one of the set of assigned keywords.
- Clicking any of the report titles **will provide a link** to the respective summary page.

Research reports

Hide Filter

Keywords: No Filter

Submit Filter

- Air Quality Monitoring
- Alternative Modes
- Clean Vehicles/Emissions Standards
- Emissions Control Strategies
- Emissions Impact Evaluation
- Federal and State Regulations

Year	Title	
2003	Air Quality and Transport...	Policy, Standards
2003	Equity Issues Associated	ets
2009	Non-Criteria Pollutant Requirements and Impacts: Mobile Source Air Toxics and Greenhouse Gas Emissions in a State and Local Transportation Context	
2009	TWG Green House Gas Update	
2010	Generally Applicable Emission Performance Measures	
2010	New Directions in Greenhouse Gas Emissions and Climate Change	
2011	TWG Air Quality Planning Technical Analysis - Investigation of Diesel Inspection and Maintenance Program (I/M) in the DFW Area	
INVENTORIES AND CONFORMITY		
2005	Determination of Extended Idling Portion of Mobile Source Emissions Inventories	
2006	Implications of Statewide Air Quality Monitoring in Texas	
2011	TWG Air Quality Planning Technical Analysis - Analysis Methodology Overview for Donut and Isolated Rural Nonattainment Areas	

Individual Reports and Summaries

Transportation Air Quality Policy Analysis

Compiled by Texas A&M Transportation Institute

HOME MENU OPTIONS SETTINGS LOGOFF

BY SUBJECT CATEGORY REPORTS AND KEYWORDS COMPENDIUM OF SUMMARIES

1. PLANNING, POLICY, STDS BY SUBJECT CATEGORY > PLANNING, POLICY, STDS > AIR QUALITY / TPT PLANNING

Air Quality and Transportation Planning

Summary Report Full Report

Purpose...

This report addresses current practices of **transportation and air quality planning** in Texas and elsewhere and suggests how they may be made more effective through better **integration of both processes**.

Background... Expand

Findings...

Effectively integrating transportation and air quality planning...

- Make air quality improvement in general, and on-road mobile source emissions reductions a primary goal **for the transportation plan**
- Make on-road mobile source emissions reduction a principal consideration in **developing plan concepts** and alternatives.
- Components for which this consideration would be effective include:
 - land use plan
 - zonal demographics
 - transportation concepts and alternatives.
- Make land use, transportation and air quality a **more iterative process**
- On-road mobile source emissions a primary evaluation and prioritization criterion in the **planning and programming** process

Current approaches...

- The interviews of MPOs in Texas demonstrate that, in and outside Texas, they are to **some degree already integrating** air quality into their respective transportation planning processes.
- The Texas respondents do quite well; however, there is additional opportunity to **more**

Compendium of Summaries



Air Quality and Conformity Inter-Agency Contract-
Summary of Policy Analysis Tasks
FY2000 to FY2011

Prepared for the Texas Department of Transportation
Prepared by the Texas A&M Transportation Institute
August 2012