



TRANSPORTATION RESEARCH BOARD

TRB Snap Search: Air Quality & Climate Change

TRB's involvement in research on Air Quality & Climate Change from 2017-2019

The [Transportation Research Board \(TRB\)](#) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:

- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

TRB Research

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation

- Click here to view [search results](#) on TRB published research on Air Quality & Climate Change within the past two years.

Specialty Webpage

- [Climate Change](#)

Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
 - [Report 185](#) - Airport Air Quality Management 101
 - [Report 180](#) - Guidebook for Quantifying Airport Ground Access Vehicle Activity for Emissions Modeling
 - [Report 179](#) - Dispersion Modeling Guidance for Airports Addressing Local Air Quality Health Concerns
 - [Synthesis 89](#) - Clean Vehicles, Fuels, and Practices for Airport Private Ground Transportation Providers
 - [Synthesis 85](#) - Alternative Fuels in Airport Fleets
 - [Web-Only Document 35](#) - State of the Industry Report on Air Quality Emissions from Sustainable Alternative Jet Fuels
 - [WebResource 4](#) - Airport Air Quality Resource Library
- [Conference & Workshop Proceedings](#)
 - [Conference Proceeding 54](#) - Decarbonizing Transport for a Sustainable Future: Mitigating Impacts of the Changing Climate
- [National Cooperative Highway Research Program \(NCHRP\)](#)
 - [Report 862](#) - Guide to Deploying Clean Truck Freight Strategies
 - [Web-Only Document 246](#) - Volume 1: TRAQS User Guide
 - [Web-Only Document 246](#) - Volume 2: TRAQS: A Combined Interface for Project-Level Air Quality Analysis
- [Transportation Research Record: Journal of the Transportation Research Board](#)
 - [Volume 2628](#) - Environment and Energy
 - [Volume 2627](#) - Air Quality
 - [Volume 2604](#) - Systems Resilience and Climate Change

Current & Upcoming Projects

- [Current Projects](#)
 - [ACRP 02-80](#) - Quantifying Emissions Reductions at Airports from the Use of Alternative Jet Fuels
 - [ACRP Synthesis 11-03/Topic S02-20](#) - Lessons Learned from Airport Greenhouse Gas Reduction Efforts
 - [NCHRP 08-117](#) - Impact of Transformational Technologies on Land Use and Transportation
 - [NCHRP 20-59\(55\)](#) - Transportation System Resilience: CEO Primer & Engagement
 - [NCHRP 25-25/Task 104](#) - Streamlining Carbon Monoxide Project-Level Air Quality Analyses with Programmatic Agreements

- [NCHRP 25-25/Task 108](#) - Creating Lookup Tables to Streamline the Determination of Emission Reductions for CMAQ Projects
- [NCHRP 25-55](#) - Assessment of Regulatory Air Pollution Dispersion Models to Quantify the Impacts of Transportation Sector Emissions
- [NCHRP 25-56](#) - Methods for State DOTs to Reduce Greenhouse Gas Emissions from the Transportation Sector
- [Upcoming Projects](#)
 - [NCHRP 25-25/Task 115](#) - Estimates of Emissions Reductions from Future Fleet Changes for Use in Air Quality Models

Reports from the [National Academies Press](#) on Air Quality & Climate Change

- [Review of the Draft Fourth National Climate Assessment](#)
- [Improving Characterization of Anthropogenic Methane Emissions in the United States](#)
- [Valuing Climate Damages](#)
- [Review of the Research Program of the U.S. DRIVE Partnership](#)
- [Accomplishments of the U.S. Global Change Research Program](#)

Committees & Panels

[Sign-up to be a committee "Friend"](#)

[TRB Standing Committees](#) – Search by transportation mode and committee topic

- [AD000](#) - Planning and Environment Group
- [ADC20](#) - Transportation and Air Quality
- [ADC80](#) - Alternative Transportation Fuels and Technologies
- [AV030](#) - Environmental Impacts of Aviation

[Task Forces](#) - Search for *task force* under committee here

- [A0020T](#) - Climate Change and Energy

Councils

- [A0040T](#) – Young Member Council

Recent and Upcoming Events

[Upcoming Conferences](#) - Left hand menu “upcoming conferences by topic”
(*Conferences cosponsored by TRB are denoted with an asterisk.*)

[58th Annual Workshop on Transportation Law](#)

July 20-25, 2019
Cleveland, Ohio

[2019 International Conference on Ecology and Transportation*](#)

September 22-26, 2019
Sacramento, California

[Webinars](#) – View upcoming webinars, suggest a webinar or add registration information

- [Understanding Airport Air Quality Management and Public Health](#) – December 12, 2018

Past Webinars

- [Federal Environmental Case Law Update on Transportation Matters](#) – October 10, 2018
- [Technology Changes Influencing the Decline of Vehicle Emissions](#) – April 25, 2018
- [Reducing the Impact of Lead Emissions at Airports](#) – April 25, 2017

TRB’s Transportation Research Information Services (TRIS)

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available for free on TRB’s website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches

- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.trb.org

Practice Ready Papers (PRP) Database - Papers with information that is ready for immediate implementation or requires minimal additional research or implementation effort - prp.trb.org

Publications Index (PubsIndex) Database – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - pubsindex.trb.org

Research in Progress (RiP) Database – Current or recently completed transportation research projects - rip.trb.org

Research Needs Statements (RNS) – Research needs as identified by TRB Technical Activities standing committees - rns.trb.org

Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989