

**TRB** TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Air Quality & Climate Change

### TRB's involvement in research on Air Quality & Climate Change from 2020-2022

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

All available Snap Searches can be accessed online here: <http://www.trb.org/InformationServices/Snap.aspx>

### 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 two past years.

### Specialty Webpage

- [Climate Change](#)

### Specialty Reports

- [Critical Issues in Transportation 2019](#)
- [COVID-19 Addendum to Critical Issues in Transportation](#)
- [Racial Equity Addendum to Critical Issues in Transportation](#)

### Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
  - [Report 220](#) - Guidebook for Developing a Zero- or Low-Emissions Roadmap at Airports
- [National Cooperative Highway Research Program \(NCHRP\)](#)
  - [Report 938](#) - Incorporating the Costs and Benefits of Adaptation Measures in Preparation for Extreme Weather Events and Climate Change—Guidebook
  - [Synthesis 576](#) - Practices for Project-Level Analyses for Air Quality
  - [Web-Only Document 274](#) - Zero Emission Vehicles: Forecasting Fleet Scenarios and their Emissions Implications
  - [Web-Only Document 271](#) - Guidelines to Incorporate the Costs and Benefits of Adaptation Measures in Preparation for Extreme Weather Events and Climate Change
- [Special Reports](#)
  - [Report 340](#) - Investing in Transportation Resilience: A Framework for Informed Choices
  - [Report 336](#) - Options for Reducing Lead Emissions from Piston-Engine Aircraft
- [Transit Cooperative Research Program \(TCRP\)](#)
  - [Report 226](#) - An Update on Public Transportation's Impacts on Greenhouse Gas Emissions
  - [Report 219](#) - Guidebook for Deploying Zero-Emission Transit Buses
- [Transportation Research Circulars](#)
  - [E-Circular 265](#) - Transportation Resilience 2019: 2nd International Conference on Resilience to Natural Hazards and Extreme Weather

### Current & Upcoming Projects

- [Current Projects](#)
  - [ACRP 02-90](#) - Development of Airport Construction Emission Inventory Tool (ACEIT) Version 2.0
  - [ACRP 02-94](#) - Update ACRP WebResource 4: Airport Air Quality Resource Library
  - [ACRP 02-95](#) - Update ACRP Report 135: Understanding Airport Air Quality and Public Health Studies Related to Airports
  - [NCHRP 15-80](#) - Design Guide and Standards for Infrastructure Resilience
  - [NCHRP 20-44\(23\)](#) - Pilot Test of Climate Change Design Practices Guide for Hydrology and Hydraulics
  - [NCHRP 20-59\(55\)](#) - Transportation System Resilience: CEO Primer & Engagement
  - [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
  - [NCHRP 25-64](#) - Considering Greenhouse Gas Emissions and Climate Change in Environmental Reviews: Resources for State DOTs
  - [NCHRP Synthesis 20-05/Topic 53-11](#) - Resilient Design with Distributed Rainfall Modeling
- [Upcoming Projects](#)
  - [NCHRP 08-148](#) - Utility Abandonment, Out of Service Plant, and Decommissioning without Removal on Public Right of Way
  - [NCHRP 15-61A](#) - Updates to the Design Practices Guide for Applying Climate Change Information to Hydrologic and Coastal Design of Transportation Infrastructure
  - [TCRP E-13](#) - COVID-19 and Transit Air Quality Protections (Insight Event)

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

- [Global Change Research Needs and Opportunities for 2022-2031](#)
- [Accelerating Decarbonization of the U.S. Energy System](#)
- [Climate Change: Evidence and Causes: Update 2020](#)
- [Evolving the Geodetic Infrastructure to Meet New Scientific Needs](#)
- [Advancing Urban Sustainability in China and the United States](#)
- [Understanding and Responding to Global Health Security Risks from Microbial Threats in the Arctic](#)
- [Implications of the California Wildfires for Health, Communities, and Preparedness](#)
- [Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two](#)
- [Advanced Technologies for Gas Turbines](#)

### Committees & Panels

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

**TRB Standing Committees** – Search by transportation mode and committee topic

- [ABC99I](#) - 12th National Conference on Transportation Asset Management
- [ACP20](#) - Freeway Operations
- [ACP35](#) - Managed Lanes
- [AMR50](#) - Extreme Weather and Climate Change Adaptation
- [AMS10](#) - Air Quality and Greenhouse Gas Mitigation
- [AMS40](#) - Alternative Fuels and Technologies
- [AV030](#) - Environmental Impacts of Aviation

### Project Panels

- [D1561](#) - Applying Climate Change Information to Hydrologic and Hydraulic Design of Transportation Infrastructure
- [D2555](#) - Quantifying the Contribution of Vehicle Emissions to Local Air Quality
- [D2564](#) - Resources for State DOTs to Consider Greenhouse Gas Emissions and Climate Change in NEPA Documents
- [DA0294](#) - Update ACRP WebResource 4: Airport Air Quality Resource Library
- [DA0265](#) - Update ACRP Report 135: Understanding Airport Air Quality and Public Health Studies Related to Airports
- [SN5118](#) - Practices for Project-Level Analyses for Air Quality
- [TE13](#) - COVID-19 and Transit Air Quality Protections (Insight Event)

**Task Forces** - Search for *task force* under committee here

### Councils

- [A001C](#) – Young Members Coordinating Council

### Recent and Upcoming Events

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

**[TRB Virtual Careers in Motion Networking Fair](#)**

December 8, 2021

Washington, DC

**[Conference on Sustainability and Emerging Transportation Technology](#)**

March 15-18, 2022

Irvine, CA

**[13th Access Management Conference](#)**

July 2022

Online

[Upcoming Events](#) – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

[Past Events](#) - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

### **TRB’s Transportation Research Information Services (TRIS)**

TRIS includes the [TRB Library](#) and the [TRIS Databases](#) (listed below) which are available 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:**

- **Transportation Research International Documentation (TRID)** – [trid.trb.org](http://trid.trb.org) - The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- **Transportation Research Thesaurus (TRT)** – [trt.trb.org](http://trt.trb.org) – A tool to improve the indexing and retrieval of transportation information.
- **Research in Progress (RiP) Database** – [rip.trb.org](http://rip.trb.org) - Current or recently completed transportation research projects
- **Research Needs Statements (RNS)** – [rns.trb.org](http://rns.trb.org) - Research needs as identified by TRB Technical Activities standing committees
- **Publications Index (PubsIndex) Database** – [pubsindex.trb.org](http://pubsindex.trb.org) - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

**Contact or Questions:** [TRBLibrary@nas.edu](mailto:TRBLibrary@nas.edu)