

**TRB** TRANSPORTATION RESEARCH BOARD

## TRB Snap Search: Winter Operations & Maintenance

### TRB's involvement in research on Winter Operations & Maintenance from 2015-2022

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 Winter Operations & Maintenance within the past seven years.

### Subject Webpages

- [Operations & Traffic Management Research at TRB](#)
- [Maintenance & Preservation Research at TRB](#)

### 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 134](#) - Applying Whole Effluent Toxicity Testing to Aircraft Deicing Runoff
  - [Report 123](#) - A Guidebook for Airport Winter Operations
  - [Report 72](#) - Guidebook for Selecting Methods to Monitor Airport and Aircraft Deicing Materials
  - [Report 14](#) - Deicing Planning Guidelines and Practices for Stormwater Management Systems, second edition
  - [Synthesis 67](#) - Airside Snow Removal Practices for Small Airports with Limited Budgets
- [The Marine Board](#)
  - [Letter Report](#) - Acquisition and Operation of Polar Icebreakers: Fulfilling the Nation's Needs
- [National Cooperative Highway Research Program \(NCHRP\)](#)
  - [IDEA Report 204](#) - Biomimetic Antifreeze Molecules: A Novel Solution to Deicing Salts and Air-Entraining Admixtures
  - [Report 889](#) - Performance Measures in Snow and Ice Control Operations
  - [Safety IDEA Report 29](#) - Self- Deicing LED Signal for Railroads and Highway Intersections
- [Transit Cooperative Research Program \(TCRP\)](#)
  - [Synthesis 129](#) - Managing Extreme Weather at Bus Stops
- [Transportation Research Circulars](#)
  - [E-Circular 248](#) - 12th International Conference on Low-Volume Roads

### Current & Upcoming Projects

- [Current Projects](#)
  - [NCHRP 06-18](#) - Guide for Snow and Ice Control Operations
  - [NCHRP 06-19](#) - Guidebook for Mechanical Methods for Snow and Ice Control Operations
  - [NCHRP IDEA 20-30/IDEA 234](#) - Field Test & Evaluation of A Solar Snow Fence
- [Upcoming Projects](#)
  - [ACRP 02-96](#) - Guidance for Treatment of Airport Stormwater Containing Deicers
  - [NCHRP 20-44\(37\)](#) - Workshops on Performance Measures in Snow and Ice Control Operations

#### Reports from the [National Academies Press](#) on Winter Operations & Maintenance

- [Service Life Assessment and Predictive Modeling for an Aging Critical Infrastructure](#)
- [Integrating Social and Behavioral Sciences Within the Weather Enterprise](#)
- [Antarctic Sea Ice Variability in the Southern Ocean-Climate System](#)
- [Attribution of Extreme Weather Events in the Context of Climate Change](#)

#### Committees & Panels

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

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

- [ACP10](#) – Regional Transportation Systems Management and Operations
- [AKG30](#) - Geo-Environmental and Climatic Impacts on Geomaterials
- [AKR10](#) - Maintenance and Operations Management
- [AKR20](#) - Roadside Maintenance Operations
- [AKR30](#) - Maintenance Fleet and Equipment
- [AKR40](#) - Winter Maintenance
- [AKR50](#) - Road Weather
- [AKT10](#) - Pavement Management Systems
- [AKT30](#) - Pavement Maintenance
- [AKT40](#) - Structures Maintenance
- [AKT50](#) - Bridge and Structures Management
- [AKT70](#) - Maintenance Management Systems
- [AMR50](#) - Extreme Weather and Climate Change Adaptation
- [AR050](#) - Railroad Infrastructure Design and Maintenance
- [AR060](#) - Rail Transit Infrastructure Design and Maintenance
- [AV030](#) - Environmental Impacts of Aviation
- [AW030](#) – Marine Environment

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

#### CRP Panels

- [Project Panels Related to Operations & Traffic Management](#)
- [Project Panels Related to Maintenance & Preservation](#)

#### 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.*)

**[Research Day at ITF Annual Summit\\*](#)**

May 17, 2022

Leipzig, Germany

**[18th Biennial National Harbor Safety Committee Conference](#)**

June 13-15, 2022

Boston, MA

**[International Conference on the Bearing Capacity of Roads, Railways, and Airfields\\*](#)**

June 28-30, 2022

Trondheim, Norway

**[TRB International Conference on Low-Volume Roads](#)**

July 23, 2023  
Cedar Rapids, IA

[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

- [Concrete Overlays of Asphalt](#) – March 11, 2021
- [Planning an Effective Airport Deicing Runoff Management Program](#) – December 8, 2020
- [Guide to Snow and Ice Performance Measures: Key Findings & Recommendations](#) – May 15, 2019

## **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)