

The National Academies of
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TRANSPORTATION RESEARCH BOARD

TRB Snap Search: Data

TRB's involvement in research on Data from 2018-2019

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 Data within the past year.

Subject Webpage

- [Data Research at TRB](#)

Recent Reports & Publications

- [Airport Cooperative Research Program \(ACRP\)](#)
 - [Report 191](#) - A Primer to Prepare for the Connected Airport and the Internet of Things
- [National Cooperative Highway Research Program \(NCHRP\)](#)
 - [IDEA Project 185](#) - CurvePortal for Automated Identification and Extraction of Horizontal Curve Information
 - [Report 875](#) - Guidance for Evaluating the Safety Impacts of Intersection Sight Distance
 - [Report 874](#) - The Transportation Research Thesaurus: Capabilities and Enhancements
 - [Report 868](#) - Cell Phone Location Data for Travel Behavior Analysis
 - [Synthesis 526](#) - Inertial Profiler Certification for Evaluation of International Roughness Index
 - [Synthesis 523](#) - Integration of Roadway Safety Data from State and Local Sources
- [Policy Studies](#)
 - [Special Report 323](#) – In-Service Performance Evaluation of Guardrail End Treatments
- [Transportation Research Circulars](#)
 - [E-Circular 233](#) - Applying Census Data for Transportation
 - [E-Circular 229](#) - 10th SHRP 2 Safety Data Symposium: From Analysis to Results
 - [E-Circular 227](#) - Advancing Highway Traffic Monitoring Through Strategic Research

Current & Upcoming Projects

- [Current Projects](#)
 - [ACRP 01-29](#) - Design and Development of a State Aviation Information Database
 - [ACRP 02-84](#) - High Resolution Spatiotemporal Population Distribution Data and Modeling for Aviation Noise Research Studies
 - [ACRP 03-45](#) - Collecting and Sharing of Operational and Safety Data
 - [ACRP 09-17](#) - Collecting, Applying, and Maintaining Pavement Condition Data at Airports
 - [ACRP Synthesis 11-03/Topic S01-19](#) - Data Acquisition and Protocols for Risk Management
 - [ACRP Synthesis 11-03/Topic S04-22](#) - Airport Surface Weather Observation Options for General Aviation Airports
 - [NCHRP 01-57A](#) - Developing Standard Definitions for Comparable Pavement Cracking Data
 - [NCHRP 01-60](#) - Measuring the Characteristics of Pavement Surface Images and Developing Standard Practices for Calibration, Certification, and Verification of Imaging Systems
 - [NCHRP 03-129](#) - Essential Communications: A Guide to Land Mobile Radio

- [NCHRP 08-108](#) - Developing National Performance Management Data Strategies to Address Data Gaps, Standards, and Quality
- [NCHRP 08-115](#) - Framework for Designing and Managing Data and Information Workflows for Transportation Assets
- [NCHRP 08-116](#) - Framework for CV Pilot and Smart Cities Data Analytics for Policy Guidance
- [NCHRP 10-100](#) - Procedures and Guidelines for Validating Contractor Test Data
- [NCHRP 12-104](#) - Guidelines to Improve the Quality of Element-Level Bridge Inspection Data
- [NCHRP 17-43](#) - Long-Term Roadside Crash Data Collection Program
- [NCHRP 17-85](#) - Development and Application of Crash Severity Models for the Highway Safety Manual
- [NCHRP 17-86](#) - Estimating Effectiveness of Safety Treatments in the Absence of Crash Data
- [NCHRP 17-88](#) - Roadside Encroachment Data for All Vehicle Types Across a Range of Traffic Volumes
- [NCHRP 20-50\(18\)](#) - LTPP Data Analysis: Significance of As-Constructed Asphalt Pavement Air Voids to Pavement Performance
- [NCHRP 20-50\(20\)](#) - LTPP Data Analysis: Develop Tools to Improve Accuracy of Traffic Loading Data Collection
- [NCHRP 20-110](#) - A Guide to Ensure Access to the Publications and Data of Federally Funded Transportation-Related Research
- [NCHRP 20-121](#) - State DOT Contributions to the Study, Investigation, and Interdiction of Human Trafficking
- [NCHRP 25-25/Task 114](#) - Integrating Tribal Knowledge into Processes to Identify, Evaluate, and Record Cultural Resources
- [NCHRP IDEA 20-30/IDEA 202](#) - Vertical Impedance Scanner for Concrete Bridge Deck Assessment without Direct Rebar Attachment
- [NCHRP Synthesis 20-05/Topic 48-14](#) - Analyzing Data for Measuring Transportation Performance by State DOTs and MPOs
- [NCHRP Synthesis 20-05/Topic 49-14](#) - Methods to Acquire Proprietary Data for Transportation Applications
- [NCHRP Synthesis 20-05/Topic 49-15](#) - Automated Pavement Condition Surveys
- [NCHRP Synthesis 20-05/Topic 50-03](#) - Use of Weigh-in-Motion Data for Improving Pavement, Bridge, Weight Enforcement, and Freight Logistics Practices
- [NCHRP Synthesis 20-05/Topic 50-06](#) - Advances in Unstable Slope Instrumentation and Monitoring
- [NCHRP Synthesis 20-05/Topic 50-07](#) - Electronic Ticketing of Materials for Construction Management
- [NCHRP Synthesis 20-05/Topic 50-10](#) - Availability and use of Pedestrian Infrastructure Data to Support Active Transportation Planning
- [NCHRP Synthesis 20-05/Topic 50-15](#) - Asset Management Approaches to Identifying and Evaluating Assets Damaged Due to Emergency Events
- [TCRP G-16](#) - Development of Transactional Data Specifications for Demand-Responsive Transportation
- [Upcoming Projects](#)
 - [ACRP 01-39](#) - Creative Marketing Techniques to Improve Revenue Generation Partnerships
 - [ACRP 01-43](#) - Conducting Consumer Research of Air Passengers
 - [ACRP 10-27](#) - Using Collaborative Decision Making to Enhance the Management of Adverse Conditions, IROPS, and Crises
 - [BTSCRIP BTS-04](#) - Tracking State Traffic Citation and Adjudication Outcomes
 - [BTSCRIP BTS-08](#) - Use of SHRP2 Naturalistic Driving Study Database to Improve Teen Driving Safety: Phase 1 Proof of Concept
 - [NCHRP 03-134](#) - Determination of Encroachment Conditions in Work Zones
 - [NCHRP 08-119](#) - Developing Data Standards and Guidance for Transportation Planning and Traffic Operations - Phase 1
 - [NCHRP 08-124](#) - Quantifying the Impacts of Corridor Management
 - [NCHRP 17-87](#) - Enhancing Pedestrian Volume Estimation and Developing HCM Pedestrian Methodologies for Safe and Sustainable Communities
 - [NCHRP 17-93](#) - Updating Safety Performance Functions for Data-Driven Safety Analysis
 - [NCHRP 20-07/Task 354](#) - Work Zone Speed Limits and Crash Data Practices
 - [NCHRP 20-07/Task 368](#) - Development of a Roadmap for Use of SHRP2 Safety Data to Enhance Existing Publications
 - [NCHRP 20-24\(119\)](#) - Strategic Research in Support of the Connected and Automated Vehicle Executive Leadership Team
 - [NCHRP 20-50\(17\)](#) - LTPP Data Analysis: Consequences of Deferred Treatment of Pavement Preservation Treatment Placement on Asphalt Concrete, Portland Cement Concrete and Composite Pavement Structures
 - [NCHRP 20-50\(22\)](#) - LTPP Data Analysis: Feasibility of Using LTPP Data to Improve Use of FWD and Longitudinal Profile Measurements
 - [NCHRP 20-102\(13\)](#) - Planning Data Needs and Collection Techniques for CV/AV Applications
 - [NCHRP 20-102\(14\)](#) - Data Management Strategies for CV/AV Applications for Operations

- [NCHRP 20-102\(17\)](#) - Deployment Guidance for CV Applications in the Open Source Application Development Portal
- [NCHRP 20-102\(18\)](#) - Minimum Safety Data Needed for Automated Vehicle Operations and Crash Analysis
- [NCHRP 22-33](#) - Multi-State In-Service Performance Evaluations of Roadside Safety Hardware
- [TCRP F-27](#) - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
- [TCRP J-11/Task 31](#) - Guidance for Trading, Sharing, and Selling Public Transit Data – Now and in the Future

Reports from the [National Academies Press](#) on Data

- [Opportunities from the Integration of Simulation Science and Data Science](#)
- [Open Science by Design - Realizing a Vision for 21st Century Research](#)
- [Reengineering the Census Bureau's Annual Economic Surveys](#)
- [Data Science for Undergraduates - Opportunities and Options](#)

Committees & Panels

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

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

- [ABG40](#) - Library and Information Science for Transportation
- [ABI00](#) - Data and Information Systems
- [ABI10](#) - National Transportation Data Requirements and Programs
- [ABI20](#) - Statewide Transportation Data and Information Systems
- [ABI30](#) - Urban Transportation Data and Information Systems
- [ABI35](#) - Highway Traffic Monitoring
- [ABI50](#) - Information Systems and Technology
- [ABI60](#) - Geographic Information Science and Applications
- [ABI65T](#) - Innovations in Freight Data Workshop
- [ABI90](#) - Freight Transportation Data
- [ADB40](#) - Transportation Demand Forecasting
- [AFB80](#) - Geospatial Data Acquisition Technologies
- [ANB20](#) - Safety Data, Analysis and Evaluation

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

- [A0030T](#) –Data for Decisions and Performance Measures
- [ABI32T](#) – Using Census for Transportation Conference
- [ABI45T](#) – Understanding New Directions for the National Household Travel Survey
- [ABI55T](#) – Data Privacy, Security and Protection Policy
- [ABI92T](#) - Understanding Big Data in Freight Transportation

CRP Panels

- [Project Panels Related to Data](#)

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.*)

[Innovations in Freight Data Workshop](#)

April 9-10

Irvine, California

[17th National Transportation Planning Applications Conference](#)

June 2-5, 2019

Portland, Oregon

[Conference on Performance and Data in Transportation Decision Making](#)

September 15-18, 2019

Atlanta, Georgia

[3rd International Conference on Information Technology in Geo-Engineering \(3rd ICITG 2019\)*](#)

September 29-October 2

Guimaraes, Portugal

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

[Past Webinars](#)

- [Data](#)

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:

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