



Freight Transportation Overview

TRB at a Glance

The mission of the Transportation Research Board (TRB) is to provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal.

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.

More info at www.trb.org

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

More information about TRIS is available online at: <http://www.trb.org/InformationServices/InformationServices.aspx>
Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989



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Recent and Upcoming Events

- Conferences (co-sponsored by TRB):
 - June 15, 2016 Portland, Oregon **Use of Scenario Planning in Transportation Planning**
 - October 31, 2016 Detroit, Michigan **TRB Partners in Research Symposium: Transformational Technologies in Transportation**
 - May 17, 2017 Irvine, California **Innovations in Freight Data Workshop**
- Webinars:
 - May 26, 2016 **Data to Support Transportation Agency Business Needs: A Self-Assessment Guide**

View TRB webinars here: <http://www.trb.org/ElectronicSessions/ConferenceRecordings.aspx>

Technical Committees

- Standing Committees:
 - Freight Transportation Data (ABJ90)
 - Truck and Bus Safety (ANB70)
 - Freight Rail Transportation (AR040)
 - Freight Systems Group (AT000)
 - Freight Transportation Economics and Regulation (AT010)
 - Freight Transportation Planning and Logistics (AT015)
 - Development of Freight Fluidity Performance Measures (AT017T)
 - International Trade and Transportation (AT020)
 - Urban Freight Transportation (AT025)
 - Agricultural Transportation (AT030)
 - Military Transportation (AT035)
 - Transportation of Hazardous Materials (AT040)
 - Intermodal Freight Transport (AT045)
 - Intermodal Freight Terminal Design and Operations (AT050)
 - Truck Size and Weight (AT055)
 - Trucking Industry Research (AT060)
 - Committee on The Role of Freight Transportation in Economic Competitiveness: The 8th University Tran (AT099D)
- Task Force:
 - Task Force on Understanding Big Data in Freight Transportation (ABJ92T)
 - Task Force on Development of Freight Fluidity Performance Measures (AT017T)
- Council:
 - Young Member Council (A0040T)

To become Friend of any committee visit MyTRB.org

Policy Study Committees

- Commercial Truck and Bus Safety Synthesis Program (B0110)
- Committee for Review of USDOT Truck Size and Weight Study (B0136)
- Evaluation of the Federal Railroad Administration Research and Development Program (B0137)
- Committee for Study of Freight Rail Transportation and Regulation (B0139)
- Transportation Safety IDEA Program Committee (E1008)



Cooperative Research Program (CRP)

- NCFRP Reports
 - NCFRP Report, Issue: 35 - Implementing the Freight Transportation Data Architecture: Data Element Dictionary.
 - NCFRP Report, Issue: 34 - Evaluating Alternatives for Landside Transport of Ocean Containers.
 - NCFRP Report, Issue: 33 - Improving Freight System Performance in Metropolitan Areas: A Planning Guide.
 - NCFRP Report, Issue: 32 - Integrating MTS Commerce Data with Multimodal Freight Transportation Performance Measures to Support MTS Maintenance Investment Decision Making.
 - NCFRP Report, Issue: 31 - Incorporating Truck Analysis into the Highway Capacity Manual.
 - NCFRP Report, Issue: 30 - Making U.S. Ports Resilient as Part of Extended Intermodal Supply Chains.
 - NCFRP Report, Issue: 29 - Making Trucks Count: Innovative Strategies for Obtaining Comprehensive Truck Activity Data.
 - NCFRP Report, Issue: 28 - Sustainability Strategies Addressing Supply-Chain Air Emissions.
 - NCFRP Report, Issue: 27 - Web-Based Screening Tool for Shared-Use Rail Corridors.
 - NCFRP Report, Issue: 26 - Guidebook for Developing Subnational Commodity Flow Data.
 - NCFRP Report, Issue: 25 - Freight Data Sharing Guidebook.
 - NCFRP Report, Issue: 24 - Smart Growth and Urban Goods Movement.
 - NCFRP Report, Issue: 23 - Synthesis of Freight Research in Urban Transportation Planning.
 - NCFRP Report, Issue: 22 - Freight Data Cost Elements.
 - NCFRP Report, Issue: 21 - Handbook on Applying Environmental Benchmarking in Freight Transportation.
 - NCFRP Report, Issue: 20 - Guidebook for Assessing Evolving International Container Chassis Supply Models.
 - NCFRP Report, Issue: 18 - Marine Highway Transport of Toxic Inhalation Hazard Materials.
 - NCFRP Report, Issue: 17 - Multimodal Freight Transportation Within the Great Lakes–Saint Lawrence Basin.
 - NCFRP Report, Issue: 16 - Preserving and Protecting Freight Infrastructure and Routes.
 - NCFRP Report, Issue: 15 - Dedicated Revenue Mechanisms for Freight Transportation Investment.
 - NCFRP Report, Issue: 14 - Guidebook for Understanding Urban Goods Movement.
 - NCFRP Report, Issue: 13 - Freight Facility Location Selection: A Guide for Public Officials.
 - NCFRP Report, Issue: 12 - Framework and Tools for Estimating Benefits of Specific Freight Network Investments.
 - NCFRP Report, Issue: 10 - Performance Measures for Freight Transportation.
 - NCFRP Report, Issue: 9 - Guidance for Developing a Freight Transportation Data Architecture.
- HMCRP Reports
 - HMCRP Report, Issue: 13 - Test Procedures and Classification Criteria for Release of Toxic Gases from Water-Reactive Materials.
 - HMCRP Report, Issue: 12 - Hazardous Materials Transportation Risk Assessment: State of the Practice.
 - HMCRP Report, Issue: 11 - Technical Assessment of Dry Ice Limits on Aircraft.
 - HMCRP Report, Issue: 10 - Feasibility Study for Highway Hazardous Materials Bulk Package Accident Performance Data Collection.
 - HMCRP Report, Issue: 9 - A Compendium of Best Practices and Lessons Learned for Improving Local Community Recovery from Disastrous Hazardous Materials Transportation Incidents.
 - HMCRP Report, Issue: 8 - Evaluation of the Use of Electronic Shipping Papers for Hazardous Materials Shipments.
 - HMCRP Report, Issue: 6 - Feasibility of a Consolidated Security Credential for Persons Who Transport Hazardous Materials.
 - HMCRP Report, Issue: 4 - Emerging Technologies Applicable to Hazardous Materials Transportation Safety and Security.
 - HMCRP Report, Issue: 3 - Guidebook for Conducting Local Hazardous Materials Commodity Flow Studies.
- Transportation Research E-Circulars
 - Transportation Research Circular, Issue E-C205 - Commodity Flow Survey Workshop, October 29, 2015,

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Washington D.C..

- Transportation Research E-Circular, Issue: E-C187 - Developing Freight Fluidity Performance Measures: Supply Chain Perspective on Freight System Performance. Summary of a Workshop, May 21-22, 2014, Washington, D.C..
- Transportation Research E-Circular, Issue: E-C169 - Measuring the Transportation System from a Supply Chain Perspective.
- Transportation Research E-Circular, Issue: E-C158 - Commodity Flow Survey Workshop, November 16, 2010, Washington, D.C..
- Transportation Research E-Circular, Issue: E-C146 - Trucking 101: An Industry Primer.
- NCHRP Reports
 - NCHRP Report, Issue: 773 - Capacity Modeling Guidebook for Shared-Use Passenger and Freight Rail Operations.
 - NCHRP Report, Issue: 750 - Strategic Issues Facing Transportation, Volume 1: Scenario Planning for Freight Transportation Infrastructure Investment.
 - NCHRP Report, Issue: 732 - Methodologies to Estimate the Economic Impacts of Disruptions to the Goods Movement System.
- NCFRP Web-Only Documents
 - NCFRP Web-Only Document, Issue: 5 - Carbon Footprint of Supply Chains: A Scoping Study.
 - NCFRP Web-Only Document, Issue: 4 - Identification and Evaluation of Freight Demand Factors.
 - NCFRP Web-Only Document, Issue: 2 - Multi-State Freight Transportation Organizations.
 - NCFRP Web-Only Document, Issue: 1 - Background Research Material for Freight Facility Location Selection: A Guide for Public Officials (NCFRP Report 13).
- Other Reports
 - Transportation Research Board Special Report, Issue: 318 - Modernizing Freight Rail Regulation.
 - Transportation Research Board Special Report, Issue: 315 Funding and Managing the U.S. Inland Waterways System: What Policy Makers Need to Know.
 - NCRRP Report, Issue: 1 - Alternative Funding and Financing Mechanisms for Passenger and Freight Rail Projects.
 - NCRRP Legal Research Digest, Issue 2 - Railroad Legal Issues and Resources.
 - ACRP Web-Only Document, Issue: 20 - Guidebook for Estimating the Economic Impact of Air Cargo Operations at Airports. Part 1: User's Guidebook; Part 2: Research Report.
 - Review of U.S. Department of Transportation Truck Size and Weight Study. Second Report: Review of USDOT Technical Reports.
 - Review of U.S. Department of Transportation Truck Size and Weight Study. First Report: Review of Desk Scans.
 - HMCPRP Web-Only Document, Issue: 2 - Model Education Curricula and Toolkit for the Transportation of Hazardous Materials.
 - NCFRP Research Results Digest, Issue: 3 - National Cooperative Freight Research Program: A Status Report.
 - NCHRP-NCFRP Report, Issue: NCHRP 739 – NCFRP 19 - Freight Trip Generation and Land Use.
 - NCFRP-NCHRP Web-Only Document, Issue: NCFRP 3/NCHRP 185 - Truck Tolling: Understanding Industry Tradeoffs When Using or Avoiding Toll Facilities.
 - Transportation Research Board Special Report, Issue: 311 - Effects of Diluted Bitumen on Crude Oil

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Transmission Pipelines.

- Transportation Research Board Special Report, Issue: 304 - How We Travel: A Sustainable National Program for Travel Data.
- NCHRP Synthesis of Highway Practice, Issue: 460 - Sharing Operations Data Among Agencies.
- NCHRP Synthesis of Highway Practice, Issue: 410 - Freight Transportation Surveys.
- HMCRRP Research Results Digest, Issue: 2 - Hazardous Materials Cooperative Research Program: A Status Report.
- HMCRRP Research Results Digest, Issue: 1 - Hazardous Materials Cooperative Research Program: A Status Report.
- Current research
 - Finding and Using Data to Identify and Evaluate Corridors for Transporting Multi-state, Multi-modal Oversize/Overweight Freight (NCHRP 08-97)
 - Statewide and Mega-Regional Travel Forecasting Models: Freight and Passenger (NCHRP Synthesis 20-05/Topic 47-17)
 - Separation of Vehicles---CMV Only Lanes (NCFRP 10)
 - Estimating Freight Generation Using Commodity Flow Survey Microdata (NCFRP 25(01))
 - Impacts of Policy-Induced Freight Modal Shifts (NCFRP 44)
 - Benefit-Cost Methodologies for Evaluating Multimodal Freight Corridor Investments (NCFRP 46)
 - Freight Research to Support MAP-21 Implementation (NCFRP 48)
 - Freight Trip Generation and Land Use (Jointly Funded as NCFRP 25) (NCHRP 08-80)
 - Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks (NCHRP 08-98)
 - Methodology for Estimating the Value of Travel Time Reliability for Truck Freight System Users (NCHRP 08-99)
 - Deploying Clean Truck Freight Strategies (NCHRP 25-46)
 - Inventory of State Passenger and Freight Rail Programs (NCRRP 07-03)
 - Challenges to CV and AV Application in Truck Freight Operations (NCHRP 20-102(03))
- Upcoming projects
 - Understanding and Using New Data Sources to Address Urban and Metropolitan Freight Challenges (NCFRP 49)
 - Improving Freight Transportation Resilience in Response to Supply Chain Disruption (NCFRP 50)
 - Incorporating Freight, Transit, and Incident Response Stakeholders into Integrated Corridor Management (ICM): Processes and Strategies for Implementation (NCHRP 03-121)
 - Methodology for Estimating the Value of Travel-Time Reliability for Truck Freight System Users—Phase 2 (NCHRP 07-24)
 - Metropolitan Freight Transportation: Implementing Effective Strategies (NCHRP 08-106)
 - Quantifying the Impact of Freight-Efficient Land Use Patterns to Support Effective Decision Making (NCHRP 08-111)
 - Transit, Freight, and Emergency Services Integration in Integrated Corridor Management Using SHRP2 Business Process Tools (NCHRP 03-121)
 - Getting Innovations in Metropolitan Freight Implemented (NCHRP 08-106)

Panel Member nominations accepted (<http://www.trb.org/TCRP/CRPInfoPanelMembers.aspx>)



Second Strategic Highway Research Program (SHRP 2)

- SHRP 2 Report - SHRP 2 Second Symposium: Innovations in Freight Demand Modeling and Data Improvement October 21–22, 2013.
- SHRP 2 Report, Issue: Report S2-C15-RW-1 - Integrating Freight Considerations into Collaborative Decision Making for Additions to Highway Capacity.
- SHRP 2 Report, Issue: S2-C15-RW-2 - Integrating Freight Considerations into the Highway Capacity Planning Process: Practitioner's Guide.
- SHRP 2 Report, Issue: S2-C20-RR-1 - Freight Demand Modeling and Data Improvement.
- SHRP 2 Report, Issue: S2-C20-RW-2 - Freight Demand Modeling and Data Improvement Strategic Plan.
- SHRP 2 Report, Issue: S2-L11-RR-1 - Evaluating Alternative Operations Strategies to Improve Travel Time Reliability.
- SHRP 2 Project Brief - Innovations in Freight Demand Modeling and Data.