TRB Snap Search: Work Zones

TRB's involvement in research on Work Zones from 2020-2023

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 Work Zones within the past three years.

Specialty Report

- Critical Issues in Transportation for 2024 and Beyond
- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Recent Reports & Publications

- National Cooperative Highway Research Program (NCHRP)
  - IDEA Report 206 - Rule-Based Automated Safety Monitoring System for Work Zone Safety
  - Report 1051 - Preparing Transportation Agencies for Connected and Automated Vehicles in Work Zones
  - Report 1037 - Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
  - Report 1021 - Application of Dynamic Lane-Use Control: Proposed Practices
  - Report 1003 - Guide to Alternative Technologies for Preventing and Mitigating Vehicle Intrusions into Highway Work Zones
  - Report 945 - Strategies for Work Zone Transportation Management Plans
  - Report 923 - Workforce Optimization Workbook for Transportation Construction Projects
  - Synthesis 608 - Practices to Motivate Safe Behaviors with Highway Construction and Maintenance Crews
  - Synthesis 591 - Safety Management Systems in Managing Highway Maintenance Worker Safety
  - Synthesis 587 - Use of Smart Work Zone Technologies for Improving Work Zone Safety
  - Synthesis 574 - Temporary Pavement Markings Placement and Removal Practices in Work Zones
  - Web-Only Document 361 - Determination of Work Zone Encroachments
  - Web-Only Document 354 - Safe and Effective Temporary Traffic Control for Mobile Operations on Two-Lane Roadways
  - Web-Only Document 322 - Alternative Technologies for Mitigating the Risk of Injuries and Deaths in Work Zones: Conduct of Research
  - Web-Only Document 276 - Evaluating Strategies for Work Zone Transportation Management Plans

Current & Upcoming Projects

- Current Projects
  - NCHRP 08-119 - Data Integration, Sharing, and Management for Transportation Planning and Traffic Operations
  - NCHRP 10-109 - Modern Solutions to Safe and Efficient Work Zone Travel
- **NCHRP 22-43** - Proposed AASHTO Guidelines for Implementation of MASH for Sign Supports, Breakaway Poles, and Work Zone Traffic Control Devices
- **NCHRP IDEA 20-30/IDEA 226** - A Smart IoT Proximity Alert System for Highway Work Zone Safety
- **NCHRP IDEA 20-30/IDEA 247** - Augmenting the Hearing of Safety-Critical Sounds for Highway Workers using Artificial Intelligence

**Upcoming Projects**
- **NCHRP 03-150** - Update to Procedure for Determining Work Zone Speed Limits
- **NCHRP 17-107** - Guide for Work Zone Intrusion Prediction and Prevention
- **NCHRP 17-121** - Using Advanced Technologies to Reduce Commercial Motor Vehicle Crashes in Work Zones
- **NCHRP 17-124** - Effectiveness of Speed Reduction in Work Zones
- **NCHRP 17-128** - Reducing Adverse Driving Behaviors in Work Zones: Strategies and Guidelines
- **NCHRP 20-24(145)** - Harnessing the Safe System Approach to Improve Traffic Safety
- **NCHRP 22-62** - Reduced Impact Angles with Temporary Barriers in Work Zones
- **NCHRP 24-52** - Guidelines for Resilient Erosion- and Sediment-Control Practices

**Reports from the National Academies Press on Work Zones**
- The Potential Impacts of Gold Mining in Virginia
- Strategies to Renew Federal Facilities
- Investing in Resilient Infrastructure in the Gulf of Mexico
- Frameworks for Protecting Workers and the Public from Inhalation Hazards
- Options for Reducing Lead Emissions from Piston-Engine Aircraft
- Space Radiation and Astronaut Health
- Lessons Learned in Health Professions Education During the COVID-19 Pandemic, Part 1
- Offshore Situation Room - Enhancing Resilience to Offshore Oil Disasters in the Gulf of Mexico

**Committees & Panels**

**Sign-up to be a committee "Friend"**

**TRB Standing Committees** – Search by transportation mode and committee topic
- **ACP55** - Traffic Control Devices
- **AKC10** – Construction Management
- **AKR10** - Maintenance and Operations Management
- **AKR20** - Roadside Maintenance Operations
- **AKR40** - Winter Maintenance

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

**CRP Panels**
- **D03119** – Application of MASH Test Criteria to Breakaway Sign and Luminaire Supports and Crashworthy Work Zone Traffic Control Devices
- **D03134** – Determination of Encroachment Conditions in Work Zones
- **D03150** - Update to Procedure for Determining Work Zone Speed Limits
- **D10109** – Modern Solutions to Safe and Efficient Work Zone Travel
- **D17107** - Work Zone Intrusion Frequency and Characteristics
- **D17121** - Using Advanced Technologies to Reduce Commercial Motor Vehicle Crashes in Work Zones
- **D17124** - Effectiveness of Speed Reduction in Work Zones
- **D17128** - Reducing Adverse Driving Behaviors in Work Zones
- **D2007358** – Reducing Risks to Worker Safety in Work Zones Due to Distracted Drivers
- **D2007416** - Alternative Technologies for Mitigating the Risk of Injuries and Deaths in the Work Zone
- **D2010228** - Best Practices in Work Zones for AVs and CVs
- **D2243** - Developing Testing Protocol for a Family of Devices - Signs, Breakaway Poles and Work Zone Devices
- **D2255** - Develop, Fabricate, and Test Surrogate Bogey Vehicles and Pendulum Masses with Noses for Evaluating MASH Breakaway Performance of Luminaire Poles, Signs, and Work Zone Devices
- **D2262** - Reduced Impact Angles with Temporary Barriers in Work Zones
- **SN5103** - Temporary Pavement Markings Placement and Removal Practices in Work Zones
- **SN5211** - Use of Smart Work Zone Technologies for Improving Work Zone Safety

**Councils**
- **A001C** – Young Members Coordinating Council
Recent and Upcoming Events

Upcoming TRB Conferences/Symposiums – Use left hand menu to filter events

2nd International Roadside Safety Conference
June 23-26, 2024
Orlando, FL

TRB’s Annual Automated Road Transportation Symposium
July 29-August 1, 2024
San Diego, CA

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

International Conference on Road Weather and Winter Maintenance
May 9-10, 2023
Washington, D.C.

TRB International Conference on Low Volume Roads
July 23-26, 2023
Cedar Rapids, IA

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 - The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- Transportation Research Thesaurus (TRT) – trt.trb.org – A tool to improve the indexing and retrieval of transportation information.
- Research in Progress (RiP) Database – rip.trb.org - Current or recently completed transportation research projects
- Publications Index (PubsIndex) Database – 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