TRB Snap Search: Natural Resources

TRB’s involvement in research on Natural Resources from 2019-2020

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](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 Natural Resources within the past year.

Specialty Report

- [Critical Issues in Transportation 2019](#)

Recent Reports & Publications

- **Airport Cooperative Research Program (ACRP)**
  - [Report 209](#) - Integrating Sustainability Planning and the Environmental Review Process
  - [Report 205](#) - Revolving Funds for Sustainability Projects at Airports
  - [Report 198](#) - Wetland Mitigation, Volume 2, A Guidebook for Airports
  - [Research Results Digest 28](#) - Thought Leader Forum Summary—Emerging Issues for ACRP
  - [Synthesis 539](#) - Landscape Development and Management Practices for Urban Freeway Roadsides

- **Conference Proceedings**
  - [Proceedings on the Web 23](#) – Economic and Social Sustainability at Airports

- **National Cooperative Highway Research Program (NCHRP)**
  - [NCHRP 25-54](#) - Field Testing of BMPs Using Granulated Ferric Oxide Media to Remove Dissolved Metals in Roadway Stormwater Runoff
  - [NCHRP 25-25/Task 119](#) - Enhancing the International Stormwater BMP Database to Serve as a Highway Specific BMP Database
  - [NCHRP 25-25/Task 113](#) - Highway Passages for Small Terrestrial Wildlife - Summary and Repository of Design Examples
  - [NCHRP 25-25/Task 108](#) - Creating Lookup Tables to Streamline the Determination of Emission Reductions for CMAQ Projects
  - [NCHRP 25-25/Task 104](#) - Streamlining Carbon Monoxide Project-Level Air Quality Analyses with Programmatic Agreements
  - [NCHRP 25-25/Task 102](#) - Artificial Bat Roost Mitigation Designs and Standardized Monitoring Criteria
  - [NCHRP 08-36/Task 146](#) - Economic Resilience and Long-Term Highway/Transportation Infrastructure Investment
  - [Report 942](#) - Evaluating the Suitability of Roadway Corridors for Use by Monarch Butterflies
  - [Report 918](#) - Approaches for Determining and Complying with TMDL Requirements Related to Roadway Stormwater Runoff
  - [Report 916](#) - Sustainable Highway Construction Guidebook
  - [Web-Only Document 280](#) - Valuing Wildlife Crossings and Enhancements for Mitigation Credits

- **Transit Cooperative Research Program (TCRP)**
  - [Report 205](#) - Social and Economic Sustainability Performance Measures for Public Transportation
• Transportation Research Circulars
  o E-Circular 244 - Mobility on Demand: A Smart, Sustainable, and Equitable Future

Current & Upcoming Projects

• Current Projects
  o NCHRP 08-111 - Effective Decision-Making Methods for Freight-Efficient Land Use
  o NCHRP 08-124 - Quantifying the Impacts of Corridor Management
  o NCHRP 14-39 - Using Vegetated Compost Blankets to Achieve Highway Runoff Volume and Pollutant Reduction
  o NCHRP 14-40 - Transforming Roadside Management and Technology Practices for the Benefit of Safety, Ecology, and Economy
  o NCHRP 14-41 - Permanent Vegetation Control Treatments for Roadsides
  o NCHRP 17-87 - Enhancing Pedestrian Volume Estimation and Developing HCM Pedestrian Methodologies for Safe and Sustainable Communities
  o NCHRP 20-59(55) - Transportation System Resilience: CEO Primer & Engagement
  o NCHRP 25-57 - Breaking Barriers: Alternative Approaches to Avoiding and Reducing Highway Traffic Noise Impacts
  o NCHRP 25-59 - Pollinator Habitat Conservation Along Roadways
  o NCHRP IDEA 20-30/IDEA 211 - Reducing Stormwater Runoff and Pollutant Loading with Biochar Addition to Highway Greenways
  o TCRP J-11/Task 36 - An Update on Public Transportation's Impacts on Greenhouse Gas Emissions
  o TCRP J-11/Task 38 - An Analysis of Green Bond Financing in the Public Transportation Industry

• Upcoming Projects
  o ACRP 10-30 - Guidelines for Systematically Evaluating the Effectiveness of an Airport’s Wildlife Hazard Management Plan
  o ACRP Synthesis 11-03/Topic S10-18 - Improving Native and Honey Bee Foraging on Airports
  o NCHRP 25-61 - Effective On-Bridge Treatment of Stormwater
  o NCHRP 25-63 - Evaluating and Improving Current Practices for Temporarily Deterring Bat Use of Bridges and Similar Structures

Reports from the National Academies Press on Natural Resources

  o A Vision for NSF Earth Sciences 2020-2030
  o Safeguarding the Bioeconomy
  o Framing the Challenge of Urban Flooding in the United States
  o Making Climate Assessments Work
  o Offshore Well Completion and Stimulation
  o Negative Emissions Technologies and Reliable Sequestration
  o Environmental Engineering for the 21st Century
  o Forest Health and Biotechnology - Possibilities and Considerations
  o A Research Review of Interventions to Increase the Persistence and Resilience of Coral Reefs

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic
  o AEP70 - Environmental Analysis and Ecology
  o AJL50 - Environmental Issues in Transportation Law
  o AKD40 - Landscape and Environmental Design
  o AKD50 - Hydrology, Hydraulics, and Stormwater
  o AMS20 - Resource Conservation and Recovery
  o AV030 - Environmental Issues in Aviation
  o AW030 - Marine Environment

Task Forces - Search for task force under committee here

Project Panels
  o D1440 - Transforming Roadside Management Technology and Practices for the Benefit of Safety, Ecology, and Economy
  o D1441 - Permanent Vegetation Control Treatments for Roadsides
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.)

10th International Conference on Scour and Erosion (ICSE-10)*
November 15-18, 2020
Arlington, Virginia

GeoChina 2021 International Conference*
July 19-21, 2021
NanChang, Jiangxi, China

Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars
- Enhancing Monarch Butterfly Habitats Along Roadway Corridors – June 3, 2020
- Designing Landscapes to Enhance Roadside Water Management – May 18, 2020
- What Role Does Ecology Have in Sustainable Transportation? – April 30, 2020
- Greener in Two Ways – Innovative Sustainability Solutions for Airports – March 2, 2020
- Legal Issues Regarding NEPA Assignment for Federal Transportation Programs - October 9, 2019
- Open Graded Pavements: A Primer with Emphasis on Water Quality Benefits - September 19, 2019
- Limitations of the Infiltration Approach to Stormwater Management - August 15, 2019
- Road Weather and Flood Monitoring with the National Water Model - April 15, 2019
- Section 106 of the National Historic Preservation Act: Update on Case Law - April 11, 2019
- The Renewal of Stormwater Systems Using Trenchless Technologies - March 6, 2019
- Adapting Shoreline Infrastructure to Sea Level Rise and Extreme Events - February 6, 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:

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.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 l (202) 334-2989