



TRANSPORTATION RESEARCH BOARD

TRB Snap Search: Aviation

TRB's involvement in research on Aviation 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 Aviation within the past year.

Subject Webpage

- [Airport Cooperative Research Program](#) at TRB

Recent Reports & Publications

- [Impacts on Practice](#) - Learning to Negotiate Airport / Airline Agreements
- [Impacts on Practice](#) - Creating a Collaborative Environment Between Airport Operations and Maintenance
- [Legal Research Digest 35](#) - Legal Considerations in the Funding and Development of Intermodal Facilities at Airports
- [Legal Research Digest 34](#) - Airport Public Health Preparedness and Response: Legal Rights, Powers, and Duties
- [Legal Research Digest 32](#) - Evolving Law on Airport Implications by Unmanned Aerial Systems
- [Report 191](#) - A Primer to Prepare for the Connected Airport and the Internet of Things
- [Report 190](#) - Common Performance Metrics for Airport Infrastructure and Operational Planning
- [Report 189](#) - Design Considerations for Airport EOCs
- [Report 187](#) - Transportation Emergency Response Application (TERA) Support Materials for Airport EOC Exercises
- [Report 186](#) - Guidebook on Building Airport Workforce Capacity
- [Report 185](#) - Airport Air Quality Management 101
- [Report 184](#) - Executive Summary for the Guidebook on Understanding FAA Grant Assurance Obligations
- [Report 155](#) - Guidebook for Advanced Computerized Maintenance Management System Integration at Airports
- [Research Results Digest 27](#) - Legal Aspects of Airport Programs - An Update
- [Synthesis 92](#) - Airport Waste Management and Recycling Practices
- [Synthesis 91 / TCRP Synthesis 137](#) - Microgrids and Their Application for Airports and Public Transit
- [Synthesis 90](#) - Incorporating ADA and Functional Needs in Emergency Exercises
- [Synthesis 89](#) - Clean Vehicles, Fuels, and Practices for Airport Private Ground Transportation Providers
- [Synthesis 88](#) - Airport Community, Water Quality Events, and the Aircraft Drinking Water Rule
- [Synthesis 87](#) - Airport Participation in Oil and Gas Development
- [Web-Only Document 44](#) - Understanding FAA Grant Assurance Obligations Volume 1: Guidebook
- [Web-Only Document 44](#) - Understanding FAA Grant Assurance Obligations Volume 2: Technical Appendices
- [Web-Only Document 44](#) - Understanding FAA Grant Assurance Obligations Volume 3: Research Report
- [Web-Only Document 44](#) - Understanding FAA Grant Assurance Obligations Volume 4: Summary of AIP Grant Assurance Requirements
- [Web-Only Document 36](#) - Enhanced AEDT Modeling of Aircraft Arrival and Departure Profiles, Volume 1: Guidance
- [Web-Only Document 36](#) - Enhanced AEDT Modeling of Aircraft Arrival and Departure Profiles, Volume 2: Research Report
- [WebResource 5](#) - Tools and Case Studies for NextGen for Airports
- [WebResource 4](#) - Airport Air Quality Resource Library
- [WebResource 3](#) - Airport Stormwater Management Library and Training Materials

Current & Upcoming Projects

- [Current Projects](#)
 - [ACRP 01-35](#) - Transportation Network Companies (TNCs): Impacts to Airport Revenues and Operations
 - [ACRP 01-37](#) - Performance Measures for State Aviation Agencies
 - [ACRP 01-38](#) - Market Value Characteristics for Property at Small Airports
 - [ACRP 02-82](#) - Developing a Roadmap to Achieve Zero Emissions at Airports
 - [ACRP 02-83](#) - Measuring Quality of Life in Communities Surrounding Airports
 - [ACRP 02-84](#) - Evaluating the Use of Spatially Precise Diurnal Population Data in Aviation Noise Studies
 - [ACRP 02-86](#) - Understanding Impacts to Airports from Temporary Flight Restrictions
 - [ACRP 02-87](#) - Determining Airfield Pavement Deicer and Anti-Icer Contributions to Airport Stormwater
 - [ACRP 03-46](#) - Implementing Airport Privatization: Guidance for Airport Decision Makers
 - [ACRP 03-47](#) - Rethinking Airport Parking Facilities to Protect and Enhance Non-Aeronautical Revenue
 - [ACRP 03-48](#) - Advanced Ground Vehicle Technologies (AGVT) for Airside Operations
 - [ACRP 04-23](#) - Social Media Guidebook for Emergency Management
 - [ACRP 10-26](#) - Airport Microgrid Implementation Toolkit
 - [ACRP 11-01/Topic 10-02](#) - Legal Issues Relating to Large Scale Airport Construction Projects
 - [ACRP 11-02/Task 30](#) - Research Roadmap in the Area of Design and Construction of Airport Facilities and Infrastructure
 - [ACRP 11-02/Task 32](#) - Airport Environmental Research Roadmap
 - [ACRP 11-02/Task 33](#) - Research Roadmap on Policy and Planning Issues
 - [ACRP Synthesis 11-03/Topic S01-18](#) - Value, Benefits, and Limitations of Qualifications Based Selection (QBS) for Airport Project Delivery
 - [ACRP Synthesis 11-03/Topic S01-19](#) - Data Acquisition and Protocols for Risk Management
 - [ACRP Synthesis 11-03/Topic S02-20](#) - Lessons Learned from Airport Greenhouse Gas Reduction Efforts
 - [ACRP Synthesis 11-03/Topic S04-21](#) - Models for Law Enforcement at Airports
 - [ACRP Synthesis 11-03/Topic S04-23](#) - Emergency Working Groups
 - [ACRP Synthesis 11-03/Topic S06-05](#) - Promoting Aviation Career Education in High Schools and Community Colleges
 - [ACRP Synthesis 11-03/Topic S07-02](#) - Strategies for Airport Passenger Access and Mobility
 - [ACRP Synthesis 11-03/Topic S10-15](#) - Evaluating Airport Performance with the Integration of UAS
- [Upcoming Projects](#)
 - [ACRP 01-36](#) - Advancing the Practice of State Aviation System Planning
 - [ACRP 01-39](#) - Creative Marketing Techniques to Improve Revenue Generation Partnerships
 - [ACRP 01-40](#) - Improving the Airport Customer Experience – UPDATE to ACRP Research Report 157
 - [ACRP 01-41](#) - Blockchain Technology and Airports - A Primer
 - [ACRP 01-42](#) - Review of Airport Governance Structures
 - [ACRP 01-43](#) - Conducting Consumer Research of Air Passengers
 - [ACRP 03-49](#) - Effective Collaboration to Plan and Respond to Communicable Disease Threats
 - [ACRP 03-50](#) - An Airport-Centric Study of the Urban Air Mobility Market
 - [ACRP 03-51](#) - Electric Aircraft of the Horizon -- An Airport Planning Perspective
 - [ACRP 06-05](#) - Guidance for Diversity in Airport Businesses Contracting and Workforce Programs
 - [ACRP 06-06](#) - Cultivating Talent in the Airport Environment
 - [ACRP 06-07](#) - Building Academic Programs to Cultivate Future Airport Industry Professionals
 - [ACRP 06-08](#) - Human Factors in Airport Operations
 - [ACRP 08-03](#) - Construction Safety and Phasing Plans
 - [ACRP 09-18](#) - Rapid Airfield Concrete Pavement Slab Replacement and Patching
 - [ACRP 09-19](#) - Airfield Pavement Markings - Effective Techniques for Removal and Temporary Applications
 - [ACRP 10-27](#) - Using Collaborative Decision Making to Enhance the Management of Adverse Conditions, IROPS, and Crises
 - [ACRP 11-01/Topic 10-03](#) - Legal Issues Relating to Airport Commercial Contracts
 - [ACRP 11-01/Topic 10-04](#) - Updated Survey of Laws and Regulations Applicable to Airport Commercial Ground Transportation
 - [ACRP 11-01/Topic 11-01](#) - Permissible Uses of Airport Revenue and Property
 - [ACRP 11-01/Topic 11-02](#) - Accommodation of Federal Agencies – Rights and Obligations of Host Airports
 - [ACRP 11-01/Topic 11-03](#) - Analysis of Laws, Regulations, and Case Laws Regarding Airport Customer Facility Charges
 - [ACRP 11-02/Task 35](#) - Research Roadmap on Administration & Human Resource Issues
 - [ACRP 11-02/Task 36](#) - Research Roadmap on Safety Issues
 - [ACRP 11-02/Task 37](#) - Periodic Report on Transformative Technology at Airports

- [ACRP 11-08\(19-01\)](#) - A Forum on Blockchain Technology and Airports

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

- [In-Time Aviation Safety Management - Challenges and Research for an Evolving Aviation System](#)
- [Assessing the Risks of Integrating Unmanned Aircraft Systems \(UAS\) into the National Airspace System](#)
- [Airport Passenger Screening Using Millimeter Wave Machines](#)

Committees & Panels

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

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

- [AV000](#) - Aviation Group
- [AV010](#) - Intergovernmental Relations in Aviation
- [AV020](#) - Aviation System Planning
- [AV030](#) - Environmental Impacts of Aviation
- [AV040](#) - Aviation Economics and Forecasting
- [AV050](#) - Airport Terminals and Ground Access
- [AV060](#) - Airfield and Airspace Capacity and Delay
- [AV070](#) - Aircraft/Airport Compatibility
- [AV080](#) - Light Commercial and General Aviation
- [AV090](#) - Aviation Security and Emergency Management

CRP Panels

- [Project Panels Related to Aviation](#)

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.)

[NOISE-CON 2019*](#)

August 25-28, 2019

San Diego, California

[6th International Conference on Women’s Issues in Transportation \(WliT 2019\)](#)

September 10-13, 2019

Irvine, California

[First International Conference on 3D Printing and Transportation](#)

November 20-21, 2019

Washington, DC

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

[Past Webinars](#)

- [Aviation](#)

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

Contact the Library at TRBLibrary@nas.edu or 1 (202) 334-2989