TRB Snap Search: Aviation

TRB's involvement in research on Aviation from 2021-2023

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- Analyses of national transportation policy issues and guidance on federal and other research programs
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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 Aviation within the past two years.

**Subject Webpage**

- [Airport Cooperative Research Program](http://www.trb.org/InformationServices/Snap.aspx) at TRB

**Specialty Report**

- [Critical Issues in Transportation 2019](http://www.trb.org/InformationServices/Snap.aspx)
- [COVID-19 Addendum to Critical Issues in Transportation](http://www.trb.org/InformationServices/Snap.aspx)
- [Racial Equity Addendum to Critical Issues in Transportation](http://www.trb.org/InformationServices/Snap.aspx)

**Recent Reports & Publications**

- [ACRP 02-87](http://www.trb.org/InformationServices/Snap.aspx) - Determining Airfield Pavement Deicer and Anti-Icer Contributions to Airport Stormwater
- [Impacts on Practice](http://www.trb.org/InformationServices/Snap.aspx) - Investing in Self-Serve Fueling Stations at Eagle River Union Airport
- [Legal Research Digest 43](http://www.trb.org/InformationServices/Snap.aspx) - Legal Considerations for Telecommunications at Airports
- [Legal Research Digest 42](http://www.trb.org/InformationServices/Snap.aspx) - Legal Implications of Data Collection at Airports
- [Legal Research Digest 41](http://www.trb.org/InformationServices/Snap.aspx) - Legal Issues Relating to Airport Commercial Contracts
- [Legal Research Digest 21](http://www.trb.org/InformationServices/Snap.aspx) - Compilation of DOT and FAA Airport Legal Determinations and Opinion Letters as of December 31, 2019
- [Report 247](http://www.trb.org/InformationServices/Snap.aspx) - Airfield Pavement Markings: Effective Techniques for Removal and Temporary Applications
- [Report 246](http://www.trb.org/InformationServices/Snap.aspx) - Airside Operations Safety: Understanding the Effects of Human Factors
- [Report 245](http://www.trb.org/InformationServices/Snap.aspx) - Guide to Evaluating Airport Governance Structures
- [Report 241](http://www.trb.org/InformationServices/Snap.aspx) - Toward a Touchless Airport Journey
- [Report 240](http://www.trb.org/InformationServices/Snap.aspx) - Primer for Airport Organizational Redesign
- [Report 237](http://www.trb.org/InformationServices/Snap.aspx) - Primer and Framework for Considering an Airport Noise and Operations Monitoring System
- [Report 236](http://www.trb.org/InformationServices/Snap.aspx) - Preparing Your Airport for Electric Aircraft and Hydrogen Technologies
- [Report 234](http://www.trb.org/InformationServices/Snap.aspx) - Rapid Slab Repair and Replacement of Airfield Concrete Pavement
- [Report 233](http://www.trb.org/InformationServices/Snap.aspx) - Airport Biometrics: A Primer
- [Report 232](http://www.trb.org/InformationServices/Snap.aspx) - Playbook for Cultivating Talent in the Airport Environment
- [Report 231](http://www.trb.org/InformationServices/Snap.aspx) - Evaluating the Traveler’s Perspective to Improve the Airport Customer Experience
- [Report 230](http://www.trb.org/InformationServices/Snap.aspx) - Enhancing Academic Programs to Prepare Future Airport Industry Professionals
- [Report 229](http://www.trb.org/InformationServices/Snap.aspx) - Airport Collaborative Decision Making (ACDM) to Manage Adverse Conditions
- [Report 228](http://www.trb.org/InformationServices/Snap.aspx) - Airport Microgrid Implementation Toolkit
- [Report 227](http://www.trb.org/InformationServices/Snap.aspx) - Evaluating and Implementing Airport Privatization and Public-Private Partnerships
- [Report 226](http://www.trb.org/InformationServices/Snap.aspx) - Planning and Design of Airport Terminal Restrooms and Ancillary Spaces
- [Report 225](http://www.trb.org/InformationServices/Snap.aspx) - Rethinking Airport Parking Facilities to Protect and Enhance Non-Aeronautical Revenues

Updated 11/30/2022
Current & Upcoming Projects

- Report 224 - Understanding Impacts to Airports From Temporary Flight Restrictions
- Report 223 - Performance Measures for State Aviation Agencies
- Report 222 - Collecting and Sharing of Operations and Safety Data
- Report 221 - Measuring Quality of Life in Communities Surrounding Airports
- Report 220 - Guidebook for Developing a Zero- or Low-Emissions Roadmap at Airports
- Synthesis 120 - Airport Software Solutions and Services Sourcing
- Synthesis 119 - Considerations for Establishing and Maintaining Successful Pollinator Programs on Airports
- Synthesis 118 - Airport Parking Pricing Strategies
- Synthesis 117 - Agricultural Operations on Airport Grounds
- Synthesis 116 - Examples of Facility Space Provided for Community Use at Airports
- Synthesis 115 - Practices in Airport Emergency Plans
- Web-Only Document 54 - Development of a Small Aircraft Runway Length Analysis Tool
- Web-Only Document 53 - Measuring and Understanding the Relationship Between Air Service and Regional Economic Development
- Web-Only Document 52 - Command-Level Decision Making for Transportation Emergency Managers
- Web-Only Document 51 - Commercial Space Vehicle Emissions Modeling
- WebResource 11 - Construction Safety and Phasing Plans
- WebResource 10 - Periodic Publication on Transformative Technologies at Airports

- Conference Proceedings
  - Proceedings On Web 29 - The Future of Aviation

- Special Reports / Consensus Studies
  - Report 344 - Emerging Hazards in Commercial Aviation—Report 1: Initial Assessment of Safety Data and Analysis
  - Process
  - Report 341 - Technical Feasibility of a Wheelchair Securement Concept for Airline Travel: A Preliminary Assessment
  - Report 336 - Options for Reducing Lead Emissions from Piston-Engine Aircraft

- Transportation Research Circulars
  - E-Circular 271 - Critical Issues in Aviation and the Environment 2021

Current & Upcoming Projects

- Current Projects
  - ACRP 01-36 - Advancing the Practice of State Aviation System Planning
  - ACRP 01-39 - Creative Marketing Techniques to Improve Revenue Generation Partnerships
  - ACRP 01-41 - Airport Blockchain Implementation Guidebook
  - ACRP 01-42 - Review of Airport Governance Structures
  - ACRP 01-44 - Airport Insurance Requirements
  - ACRP 01-45 - Selecting, Procuring, and Implementing Airport Capital Project Delivery Methods
  - ACRP 01-47 - A Guide to Developing a Culture of Innovation at Airports
  - ACRP 01-49 - The Evolution of Knowledge Management at Airports
  - ACRP 01-50 - Data Protection and Privacy Management Guidelines for Airports
  - ACRP 02-90 - Development of Airport Construction Emission Inventory Tool (ACEIT) Version 2.0
  - ACRP 02-91 - Development of PFAS Source Differentiation Guidelines for Airports
  - ACRP 02-93 - Guidebook for PFAS Management at Airports
  - ACRP 02-94 - Update ACRP WebResource 4: Airport Air Quality Resource Library
  - ACRP 02-95 - Understanding Airport Air Quality and Public Health Studies Related to Airports: An Update to ACRP Report 135
  - ACRP 02-96 - Update ACRP Report 99: Guidance for Treatment of Airport Stormwater Containing Deicers
  - ACRP 02-99 - Incorporating Environmental Justice and Equity Principles and Data into Airport Decision-Making
  - ACRP 02-100 - Carbon Removal and Reduction to Support Airport Net-Zero Goals
  - ACRP 03-49 - Effective Collaboration to Plan and Respond to Communicable Disease Threats
  - ACRP 03-52 - Guidelines for Adapting and Managing Airport Common Use Programs
  - ACRP 03-59 - Strategies to Address Homelessness at Airports
  - ACRP 03-60 - Incorporating Shock Events into Traffic and Forecasting and Airport Planning
  - ACRP 03-61 - Implementing and Improving Data Analytics Capabilities at Airports
  - ACRP 03-62 - A Toolkit for Establishing Airport Catchment Areas
  - ACRP 03-63 - Modernizing Air Cargo Operations and Infrastructure at U.S. Airports
  - ACRP 03-65 - ACRP Policy and Planning Product Updates
- Guidebook for Digital Twin Programs at Airports
- Guidelines for Accommodating Peer-to-Peer Car Sharing at Airports
- Integrated Contingency Planning for Small and Non-Hub Airports
- Airports and Communicable Diseases—Preparedness and Response
- Uncontrolled Terminal Evacuations: Planning, Response, and Recovery
- Alternative Methods to Manage Tree Growth Near Airports
- Developing Alternative Aircraft Arresting Systems
- Guidebook on Airport cybersecurity and Incident Response
- Airport Roadway Analysis and Curbside Congestion Management Strategies
- Update to ACRP Report 25: Airport Passenger Terminal Planning and Design
- Quantifying the Impacts of Delayed Maintenance of Airport Assets
- Asset Information Handover Guidelines: From Planning and Construction to O&M
- Practical Guide for Integrating Crisis Management and Business Continuity
- Aircraft Jet Blast Estimation Tool
- Evaluating the Effectiveness of an Airport's Wildlife Hazard Management Program
- Guidebook for Virtual Airport Ramp Control Operations Facilities
- U.S. Airport Industry Adoption of Automated Ground Vehicle Systems
- Migrating ACRP Research Report 228 Toolkit to an ACRP WebResource
- Analysis of Laws, Regulations, and Case Laws Regarding Airport Customer Facility Charges
- Legal Considerations for General Aviation (GA) Development at Airports
- Legal Considerations for Airports Responding to Pandemics
- Research Roadmap in the Area of Design and Construction of Airport Facilities and Infrastructure
- Periodic Report on Transformative Technology at Airports
- Tactical Initiatives from the ACRP Strategic Plan
- ACRP Insight Event--Future of Aviation
- ACRP Insight Event--Future of Airport Finances
- ACRP Insight Event--Issues on Systemic Racism
- Knowledge Transfer of Lessons Learned From ACRP Product Implementation
- State of Airport Loyalty Programs
- Airport Programs that Reduce Landside Vehicle Carbon Emissions
- Project Prioritization and Selection Processes for State Aviation Funding
- Communication, Implementation, and Outcomes of Airport Economic Impact Studies
- Managing an Emergency or Incident Associated with Flight Diversion at Airports
- Impacts of COVID to Airport Work Models and Strategies
- Automated Pavement Condition Survey Practices at Airports
- Resilience Partnerships with the Air National Guard and other Military Organizations
- Guidebook for Implementation of UAS Operational Capabilities

- Improving Airport Organizational Practices to Enhance ACDBE/DBE Participation
- Strategic Futuring of Airports and their Role in the U.S. Airport System
- Review and Update of ACRP Administration and Human Resources Products
- Update to the Guidelines, Tools, and Resources Related to ACRP Reports 11, 147, and 160
- Update ACRP Report 43: Improving Environmental Performance at Small Airports
- Airport Energy Resiliency Primer and Roadmap
- Environmental Stewardship and Compliance Training for Airport Employees
- A Balanced Look at Local Airport Activity and Climate Change
- Automated Pavement Condition Survey Practices at Airports
- Resilience Partnerships with the Air National Guard and other Military Organizations
- Identifying Congestion and Safety Risks Due to Heterogeneous Airport Curbside Activity and Remedial Solutions
- Incorporating Technologies into Airport In-Terminal Concession Programs
- Guidelines for Planning for Future Growth of Electric Vehicles at Airports
- Economic Impact of E-Commerce on The Airport Industry
- Airport Guide for Transitioning to Unleaded Aviation Gasoline
- ACRP WebResource to Support Research into Air Traveler Choice Models
- **ACRP 04-29** - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
- **ACRP 04-30** - Airport Emergency Management Capabilities Development
- **ACRP 04-31** - Providing Adequate and Balanced Trainer Facilities for Required and Recurrent Training for Airport Firefighters
- **ACRP 04-32** - Guidelines for Using Existing and Emerging Technologies to Identify and Mitigate Human Trafficking in Airports
- **ACRP 04-34** - Best Practices for Building and Improving an Aircraft Rescue and Firefighting Program
- **ACRP 06-08** - Human Factors in Airport Operations
- **ACRP 06-09** - Quantifying and Understanding Women and Minority Airport Employee Populations to Track Progress
- **ACRP 07-20** - Unruly Airport Passengers
- **ACRP 07-21** - Understanding Opportunities of Deploying Private Wireless Network at Airports
- **ACRP 10-33** - Incorporating Emerging Ground Access Technologies at Airports
- **ACRP 10-35** - Automatic Dependent Surveillance-Broadcast (ADS-B) Airport Traffic Count Validation and Recommendations
- **ACRP 11-01/Topic 11-02** - Accommodation of Federal Agencies – Rights and Obligations of Host Airports
- **ACRP 11-01/Topic 15-01** - Accommodating Federal Agencies at Airports and Related Contractual Concerns
- **ACRP 11-08(20-02)** - ACRP Insight Event—On-Demand Aviation Services for Passengers and Goods
- **ACRP 11-09/Task 01** - Review ACRP Website
- **ACRP 11-12/Task 02** - Dissemination of Research Results

**Reports from the National Academies Press on Aviation**
- [Evaluation of the Transport Airplane Risk Assessment Methodology](https://www.nap.edu/catalog/25988.html)
- [Flying in the COVID-19 Era: Science-based Risk Assessments and Mitigation Strategies on the Ground and in the Air](https://www.nap.edu/catalog/25868.html)
- [Aviation After a Year of Pandemic: Economics, People, and Technology](https://www.nap.edu/catalog/25980.html)
- [Looking Ahead at the Cybersecurity Workforce at the Federal Aviation Administration](https://www.nap.edu/catalog/25981.html)
- [Assessing NASA's University Leadership Initiative](https://www.nap.edu/catalog/26259.html)
- [Planning the Future Space Weather Operations and Research Infrastructure](https://www.nap.edu/catalog/25983.html)
- [Airborne Platforms to Advance NASA Earth System Science Priorities](https://www.nap.edu/catalog/25982.html)

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- **AV000** - Aviation Group
- **AV010** - Aviation Administration and Policy
- **AV020** - Aviation System Planning
- **AV030** - Environmental Issues in Aviation
- **AV040** - Aviation Economics and Forecasting
- **AV040(1)** - Air Cargo Subcommittee
- **AV050** - Airport Terminals and Ground Access
- **AV060** - Airfield and Airspace Performance
- **AV070** - Aircraft/Airport Compatibility
- **AV090** - Aviation Safety, Security and Emergency Management
- **AV095** - New Users of Shared Airspace
- **B0175** - Emerging Trends in Aviation Safety

**CRP Panels**
- **DA0129** - Design and Development of a State Aviation Information Database
- **DA0135** - Transportation Network Companies (TNCs): Impacts to Airport Revenues and Operations
- **DA0136** - Guidebook for Developing State Aviation System Plans
- **DA0137** - Performance Measures for State Aviation Agencies
- **DA0138** - Market Value Characteristics for Property at Small Airports
- Improving the Airport Customer Experience – UPDATE to ACRP Research Report 157
- Airport Blockchain Implementation Guidebook
- Review of Airport Governance Structures
- Airport Insurance Requirements
- Updated Guidebook for Airport Project Delivery Requirements
- Guide to Airport Innovation -- Creating an Organizational Fit for the Future
- Assessing the Effectiveness of Airport Services Programs for Passengers with Disabilities
- The Evolution of Knowledge Management at Airports
- Data Protection and Privacy Management Guidelines for Airports
- Enabling DBE and ACDBE Participations at Airports
- Championing the Airport System -- Challenging the Paradigm
- Quantifying Emissions Reductions at Airports from the Use of Alternative Jet Fuel
- Developing a Roadmap to Achieve Zero Emissions at Airports
- Measuring Quality of Life in Communities Surrounding Airports
- Evaluating the Use of Spatially Precise Diurnal Population Data in Aviation Noise Studies
- Understanding Impacts to Airports from Temporary Flight Restrictions
- Determining Airfield Pavement Deicer and Anti-Icier Contributions to Airport Stormwater
- Industry Survey - Benefits and Costs for Airport Noise and Operations Monitoring Systems
- Update the Airport Construction Emission Inventory Tool (ACEIT)
- Development of Forensic Guidelines and Tools for PFAS Source Differentiation at Airports
- Guidebook for Environmental Management of PFAS at Airports
- Update ACRP WebResource 4: Airport Air Quality Resource Library
- Update ACRP Report 135: Understanding Airport Air Quality and Public Health Studies Related to Airports
- Update ACRP Report 99: Guidance for Treatment of Airport Stormwater Containing Deicers
- Update ACRP Report 43: Improving Environmental Performance at Small Airports
- Airport Energy Resiliency
- Use of Equity and Environmental Justice Data to Support Airport Decision-Making
- Integrating UAS into Airports
- Collecting and Sharing Airport Safety and Operational Data
- An Airport-Centric Study of the Urban Air Mobility Market
- Electric Aircraft on the Horizon -- An Airport Planning Perspective
- Guidelines for Adapting and Managing Airport Common Use Programs
- General Aviation Airports Runway Length Analysis
- A Guidebook to Prepare Airports for Transformations in Wireless Connectivity: A Guidebook to Prepare Airports for Transformations in Wireless Connectivity
- Airports and the Homeless
- Incorporating Shock Events into Traffic and Forecasting and Airport Planning
- Assessing and Improving Data Analytic Capabilities in Airports
- A Toolkit for Establishing Airport Catchment Areas
- Modernizing Air Cargo Operations and Infrastructure at U.S. Airports
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- Guidance for Planning for Future Electric Vehicle Growth at Airports
- Exercising Command-Level Decision making for Critical Incidents at Airports
- Airport Contributions to the Study, Investigation, and Interdiction of Human Trafficking
- Airports and Pandemics: Reducing the Spread of Communicable Diseases
- A Framework for Airport Evacuation: Assessment of Landside Capacity Using Micro-Meso Simulation Tool
- Alternative Methods to Manage Tree Growth Near Airports
- Airport Emergency Management Capabilities Development
- Guidance in Using Existing and Emerging Technologies to Identify and Mitigate Human Trafficking in Airports
- Guidebook for Measuring Financial Benefits of Airport Safety Management Systems
- Mitigating and Responding to Airport Cybersecurity Events
- Guidance for Diversity in Airport Businesses Contracting and Workforce Diversity Programs
- Human Factors in Airport Operations
Recent and Upcoming Events

Upcoming TRB Conferences – Use left hand menu to filter events

**National Aviation System Planning Symposium**
*May 15-18, 2023*
*Irving, CA*

**Innovations in Travel Analysis and Planning Conference**
*June 4-6, 2023*
*Indianapolis, IN*
Upcoming Events - In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

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- 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

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