

# TRB-CRP 2019 PUBLICATIONS

(as of December 31, 2019)

## NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

### NCHRP Research Reports

- 888 Development of Roundabout Crash Prediction Models and Methods, 188 p. (1/19)
- 889 Performance Measures in Snow and Ice Control Operations, 164 p. (3/19)
- 894 Performance of Longitudinal Barriers on Curved, Superelevated Roadway Sections, 136 p. (3/19)
- 898 A Guide to Developing Financial Plans and Performance Measures for Transportation Asset Management, 110 p. (2/19)
- 901 Prioritization Procedure for Proposed Road–Rail Grade Separation Along Specific Rail Corridors, 70 p. (4/19)
- 902 Benchmarking and Comparative Measurement for Effective Performance Management by Transportation Agencies, 160 p. (2/19)
- 903 Geotechnical Asset Management for Transportation Agencies, Vol. 1. Research Overview, 44 p., and Vol. 2 Implementation Manual, 152 p. (5/19)
- 904 Leveraging Big Data to Improve Traffic Incident Management, 202 p. (9/19)
- 905 Measuring the Effectiveness of Public Involvement in Transportation Planning and Project Development, 96 p. (4/19)
- 906 LRFD Minimum Flexural Reinforcement Requirements, 114 p. (7/19)
- 907 Design of Concrete Bridge Beams Prestressed with CFRP Systems, 84 p. (9/19)
- 908 Acceptance Criteria of Complete Penetration Steel Bridge Welds Evaluated Using Enhanced Ultrasonic Methods, 84 p. (6/19)
- 909 Guide to Truck Activity Data for Emissions Modeling, 74 p. (5/19)
- 910 Design Guidelines for Horizontal Sightline Offsets, 112 p. (7/19)
- 911 Guidelines for Traversability of Roadside Slopes, 158 p. (8/19)
- 912 Guidelines for Detection and Remediation of Soluble Salt Contamination Prior to Coating Steel Highway Structures, 100 p. (6/19)
- 913 Compendium of Successful Practices, Strategies, and Resources in the U.S. DOT Disadvantaged Business Enterprise Program, 212 p. (7/19)
- 914 Measuring, Characterizing, and Reporting Pavement Roughness of Low-Speed and Urban Roads, 164 p. (8/19)
- 915 Relationship Between Erodability and Properties of Soils, 336 p. (10/19)
- 916 Sustainable Highway Construction Guidebook, 148 p. (12/19)
- 917 Right-Sizing Transportation Investments: A Guidebook for Planning and Programming, 230 p. (12/19)
- 917 Right-Sizing Transportation Investments: A Guidebook for Planning and Programming, Executive Summary, 20 p. (12/19)
- 918 Approaches for Determining and Complying with TMDL Requirements Related to Roadway Stormwater Runoff, 142 p. (9/19)
- 919 Field Verification of Proposed Changes to the AASHTO R 30 Procedures for Laboratory Conditioning of Asphalt Mixtures, 44 p. (10/19)
- 920 Management and Use of Data for Transportation Performance Management: Guide for Practitioners, 148 p. (10/19)
- 921 Case Studies in Implementing Cross-Asset, Multi-Objective Resource Allocation, 112 p. (12/19)
- 922 [Stormwater Infiltration in the Highway Environment: Guidance Manual](#), 218 p. (12/19) (On 2020 calendar)
- 925 Estimating the Value of Truck Travel Time Reliability, 95 p. (11/19)

## **NCHRP Synthesis**

- 522 Managing State Transportation Research Programs, 172 p. (04/19)
- 531 Automated Pavement Condition Surveys, 118 p. (7/19)
- 532 Seismic Design of Non-Conventional Bridges, 138 p. (6/19)
- 533 Very Short Duration Work Zone Safety for Maintenance and Other Activities, 70 p. (6/19)
- 534 Emerging Technologies for Construction Delivery, 112 p. (7/19)
- 535 Pedestrian Safety Relative to Traffic-Speed Management, 122 p. (10/19)
- 536 Bridge Demolition Practices, 90 p. (5/19)
- 537 Impact of Asphalt Thickness on Pavement Quality, 128 p. (6/19)
- 538 Practices for Online Public Involvement, 154 p. (7/19)
- 539 Landscape Development and Management Practices for Urban Freeway Roadsides, 124 p. (7/19)
- 540 Leveraging Private Capital for Infrastructure Renewal, 126 p. (8/19)
- 541 Practices on Acquiring Proprietary Data for Transportation Applications, 222 p. (7/19)
- 542 Prioritization of Freight Investment Projects, 154 p. (9/19)
- 543 Transportation Workforce Planning and Development Strategies, 68 p. (10/19)

## **NCHRP Legal Research Digests**

- 76 Update of Selected Studies in Transportation Law, Volume 8, Section 3: Indian Transportation Law, 86 p. (7/19)
- 77 Update of Selected Studies in Transportation Law, Volume 8, Section 1: Civil Rights and Transportation Agencies, 148 p. (9/19)
- 78 Condemnation Hierarchy—Competing Public Uses, 188 p. (11/19)
- 79 The Effectiveness of State False Claims in Protecting State Transportation Funding, 78 p. (12/19)

## **NCHRP Web-Only Documents**

- 258 Manual on Subsurface Investigations, 371 p. (2/19)
- 259 Guidelines to Improve the Quality of Element-Level Bridge Inspection Data, 240 p. (3/19)
- 260 Proposed Refinements to Design Procedures for Geosynthetic Reinforced Soil (GRS) Structures in AASHTO LRFD Bridge Design Specifications, 69 p. (04/19)
- 261 Case Studies of Truck Activity Data for Emissions Modeling, 162 p. (5/19)
- 262 Sustainable Highway Construction, 217 p. (12/19)
- 264 Proposed Enhancements to Pavement ME Design: Improved Consideration of the Influence of Subgrade and Unbound Layers on Pavement Performance, 231 p. (8/19)
- 265 Field Test of BMPs Using Granulated Ferric Oxide Media to Remove Dissolved Metals in Roadway Stormwater Runoff, 89 p. (11/19)
- 268 Proposed Modifications to AASHTO Culvert Load Rating Specifications, 601 p. (12/19)
- 269 Guide Specification for Service Life Design of Highway Bridges, 292 p. (12/19)
- 273 Road User Understanding of Bicycle Signal Faces on Traffic Signs, 145 p. (12/19)

## **TRANSIT COOPERATIVE RESEARCH PROGRAM**

### **TCRP Research Reports**

- 203 Dialysis Transportation—The Intersection of Transportation and Healthcare, 146 p. (8/19)
- 204 Partnerships Between Transit Agencies and Transportation Network Companies (TNCs), 152 p. (9/19)
- 205 Social and Economic Sustainability Performance Measures for Public Transportation: Final Guidance Document, 152 p. (12/19)
- 206 Guidance for Calculating the Return on Investment in Transit State of Good Repair, 132 p. (10/19)

207 Fast-Tracked: A Tactical Transit Study, 144 p. (12/19)

### **TCRP Synthesis**

- 138 Public Transit Rider Origin–Destination Survey Methods and Technologies, 170 p. (4/19)
- 139 Transit Service Evaluation Standards, 140 p. (4/19)
- 140 Comprehensive Bus Network Redesigns, 200 p. (6/19)
- 141 Microtransit or General Public Demand–Response Transit Services: State of the Practice, 220 p. (3/19)
- 142 Implementing the U.S. DOT Reasonable Modification Rule, 168 p. (4/19)
- 143 Managing the Transit Scheduling Workforce, 212 p. (4/19)

## **AIRPORT COOPERATIVE RESEARCH PROGRAM**

### **ACRP Research Reports**

- 16 Guidebook for Managing Small Airports, 2nd ed., 362 p. (04/19)
- 192 Airport Management Guide for Providing Aircraft Fueling Services, 244 p. (02/19)
- 193 A 2018 publication
- 194 Using Disaggregated Socioeconomic Data in Air Passenger Demand Studies, 132 p. (3/19)
- 195 Best Practices for Airport Obstruction Management Guidebook, 128 p. (3/19)
- 196 Guidebook for Integrating Collaborative Partnering into Traditional Airport Practices, 106 p. (02/19)
- 197 Guidebook for Developing a Comprehensive Renewable Resources Strategy, 150 p. (04/19)
- 198 Wetland Mitigation, Volume 1: Executive Summary, 12 p. (5/19)
- 198 Wetland Mitigation: Volume 2: A Guidebook for Airports, 166 p. (5/19)
- 199 Climate Resilience and Benefit–Cost Analysis: A Handbook for Airports, 158 p. (6/19)
- 200 Using GIS for Collaborative Land Use Compatibility Planning Near Airports, 130 p. (5/19)
- 201 Airport Emergency Communications for People with Disabilities and Others with Access and Functional Needs, 140 p. (7/19)
- 202 Developing Innovative Strategies for Aviation Education and Participation, 108 p. (7/19)
- 203 Guidelines for Collecting, Applying, and Maintaining Pavement Condition at Airports, 120 p. (8/19)
- 204 Air Demand in a Dynamic Competitive Context with the Automobile, 110 p. (11/19)
- 205 Revolving Funds for Sustainability Projects at Airports, 132 p. (9/19)
- 206 Guidebook on Effective Land Use Compatibility Planning Strategies for General Aviation Airports, 150 p. (10/19)
- 207 Optimizing the Use of Electric Preconditioned Air (PCA) and Ground Power Systems at Airports, 144 p. (11/19)
- 208 Benefit-Cost Analyses Guidebook for Airport Stormwater, 116 p. (10/19)
- 209 Integrating Sustainability and the Environmental Review Process, 72 p. (10/19)

### **ACRP Synthesis**

- 94 Attracting Investment at General Aviation Airports Through Public–Private Partnerships, 72 p. (8/19)
- 95 Airport Incident Reporting Practices, 112 p. (5/19)
- 96 Practices to Mitigate Alkali-Silica Reaction (ASR) Affected Pavement at Airports, 90 p. (8/19)
- 97 How Airports Plan for Changing Airport Capacity: The Effects of Upgauging, 100 p. (8/19)
- 98 Simulation Options for Airport Planning, 80 p. (9/19)
- 99 Emergency Working Groups at Airports, 86 p. (9/19)
- 100 Airport Greenhouse Gas Reduction Efforts, 118 p. (10/19)
- 101 Communication Strategies for Airport Passenger Access and Mobility, 84 p. (11/19)

- 102 Value, Benefits, and Limitations of Qualifications-Based Selection for Airport Project Delivery, 108 p. (11/19)
- 103 Promoting Aviation Career Education in High Schools and Community Colleges, 166 p. (11/19)
- 104 Current Landscape of Unmanned Aircraft Systems at Airports, 114 p. (11/19)
- 105 Airport Surface Weather Observation Options for General Aviation Airports, 104 p. (12/19)

### **ACRP Research Results Digests**

- 28 Thought Leader Forum Summary: Emerging Issues for ACRP, 18 p. (3/19)

### **ACRP Legal Research Digests**

- 37 Legal Issues Relating to Airports Promoting Competition, 36 p. (6/19)

### **ACRP Web-Only Documents**

- 37 Research Roadmap in the Area of Airport Operations and Maintenance, 34 p. (2/19)
- 38 Technical Appendix to Air Demand in a Dynamic Competitive Context with the Automobile, 134 p. (11/19)
- 39 Policy and Planning Issues Roadmap, 41 p. (10/19)
- 40 Airport Design and Construction Narrative Research Roadmap, 34 p. (7/19)
- 41 Alternative Jet Fuels Emissions: Quantification Methods Creation and Validation Report, 122 p. (8/19)
- 43 Improving AEDT Modeling for Aircraft Noise Reflection and Diffraction from Terrain and Manmade Structures, 123 p. (12/19)

### **ACRP WebResources**

- 7 Best Practices for Airport Obstruction Management Library (3/19)

## **NATIONAL COOPERATIVE FREIGHT RESEARCH PROGRAM**

### **NCFRP Research Reports**

- 39 Freight Transportation Resilience in Response to Supply Chain Disruptions, 156 p. (9/19)
- 40 Impacts of Policy-Induced Freight Modal Shifts, 194 p. (11/19)

**Other:** Understanding and Using New Data Sources to Address Urban and Metropolitan Freight Challenges (5/19) Web guide available: <http://www.trb.org/main/blurbs/179169.aspx>.

### **TR NEWS Magazine**

- 319: Harnessing Technology for a Safe, Equitable, Resilient System, 40 p. (2/19)
- 320: Renewing the National Commitment to the Interstate Highway System: A Foundation for the Future, 64 p. (5/19)
- 321: Women and Gender in Transportation, 58 p. (6/19)
- 322: Toward Railroad Trespassing Solutions, 48 p. (8/19)

- 323: Transportation Workforce of the Future, 56 p. (10/19)  
324: Climate Change Resilience, xx p. (12/19)

## **Transportation Research Circulars**

- E-C241 Past, Present, and Future of Asphalt Binder Rheological Parameters, 88 p. (4/19)  
E-C242 A Literature Review of Rail Trespassing and Suicide Prevention Research, 27 p. (1/19)  
E-C243 P 2 Safety Data Student Paper Competition 2017–2019, 87 p. (4/19)  
E-C244 Mobility on Demand: A Smart, Sustainable, and Equitable Future, 75 p. (5/19)  
E-C245 Transportation Oral History State of the Practice and a Path Forward, 50 p. (6/19)  
E-C246 Structural Monitoring, 43 p. (5/19)  
E-C247 TRB Forum on Preparing for Automated Vehicles and Shared Mobility, 18 p. (6/19)  
E-C248 Low-Volume Roads, 500 p., electronic-only (08/19)  
E-C249 Key Elements of Construction Quality Assurance for Implementation, 50 p. (9/19)  
E-C250 Drug-Impaired Driving: Research Needs, 55 p. (8/19)  
E-C251 Relationship Between Laboratory Cracking Tests and Field Performance of Asphalt Mixtures, 96 p. (10/19)  
E-C252 TRB Forum on Preparing for Automated Vehicles and Shared Mobility, 15 p. (10/19)  
E-C253 Transformational Technologies in Transportation: Impacts on Traditional Research Processes and Programs, 18 p. (10/19)  
E-C254 Workshop on the Use of Traffic Speed Deflection Device Data in Network- and Project-Level Pavement Decisions, 47 p. (9/19)  
E-C255 Innovations in Freight Data Workshop, 88 p. (10/19)  
E-C256 Managing Transportation Systems in a Fast-Changing World, 80 p. (11/19)  
E-C257 Primer on Bridge Load Testing, 136 p. (10/19)  
E-C258 Forum on Preparing for Automated Vehicles and Shared Mobility, 17 p. (11/19)

## **Conference Proceedings**

- 55 Airport Roles in Reducing Transmission of Communicable Diseases, 32 p. (1/19)  
56 Socioeconomic Impacts of Automated and Connected Vehicles, 94 p. (1/19)

## **Conference Proceedings on the Web**

- CPW 23 Economic and Social Sustainability at Airports, 32 p. (3/19)  
CPW 24 Challenges to Implementing Successful Land Use Strategies at Airports, 31 p. (3/19)  
CPW 25 Proceedings of the 12th National Conference on Transportation Asset Management, 700 p. (4/19)

## **PRE-PUBLICATION DRAFTS**

### **NCHRP**

- 902 Benchmarking and Comparative Measurement for Effective Performance Management by Transportation Agencies, p. (1/19)  
911 Guidelines for Slope Traversability, 189 p. (3/19)  
912 Guidelines for Detection and Remediation of Soluble Salt Contamination Prior to Coating Steel Highway Structures, 142 p. (04/19)  
915 Relationship Between Erodibility and Properties of Soil, 372 p. (04/19)  
918 Approaches for Determining and Complying with TMDL Requirements Related to Roadway Stormwater Runoff, p. (5/19)

- 920 Management and Use of Data for Transportation Performance Management Guide for Practitioners, 145 p. (5/19)
- 924 Foreseeing the Impact of Transformational Technologies on Land Use and Transportation, 188 p. (9/19)
- 927 Evaluating the Effects of Recycling Agents on Asphalt Mixtures with High RAS and RAP Binder Ratios, 312 p. (9/19)
- 928 Identification of Factors Contributing to the Decline of Traffic Fatalities in the United States from 2008 to 2012, 118 p. (9/19)
- 930 Security 101: A Physical and Cybersecurity Primer for Transportation Agencies, 209 p. (8/19)
- 931 A Guide to Emergency Management at State Transportation Agencies, 425 p. (8/19)
- 932 A Research Roadmap for Transportation and Public Health Management, 60 p. (11/19)
- 934 Traffic Forecasting Accuracy Assessment Research, 329 p. (10/19)
- 939 Guidebooks for Post-Award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods, Volume 1: Design–Build Delivery, 192 p. (12/19)
- 939 Guidebooks for Post-Award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods, Volume 2: Construction Manager–General Contractor Delivery, 215 p. (12/19)
- 939 Guidebooks for Post-Award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods, Volume 3: Research Overview, 282 p. (12/19)
- 940 Solid-State Roadway Lighting Design Guide: Volume 1: Guidance, 144 p. (12/19)
- 940 Solid-State Roadway Lighting Design Guide: Volume 2: Research Overview, 127 p. (12/19)
- 942 Evaluating the Suitability of Roadway Corridors for Use by Monarch Butterflies, 206 p. (12/19)

## **TCRP**

- 203 Dialysis Transportation: Intersection of Transportation and Healthcare, 136 p. (2/19)
- 204 Partnerships Between Transit Agencies and Transportation Network Companies (TNCs), 161 p. (9/19)
- 205 Social and Economic Sustainability Performance Measures for Public Transportation, 144 p. (5/19)
- 207 Fast-Tracked: A Tactical Transit Study, 138 p. (9/19)
- 208 Strategic Communications Toolkit to Improve Support for Transit-Priority Projects, 72 p. (7/19)
- 209 Analysis of Recent Public Transit Ridership Trends, 116 p. (10/19)
- 210 Development of Transactional Data Specifications for Demand-Responsive Transportation, 167 p. (10/19)

## **ACRP**

- 212 Airports and Unmanned Aircraft Systems, Volume 1: Managing and Engaging Stakeholders on UAS in the Vicinity of Airports, 115 p. (10/19)
- 212 Airports and Unmanned Aircraft Systems, Volume 2: Incorporating UAS into Airport Infrastructure—Planning Guidebook, 139 p. (10/19)
- 212 Airports and Unmanned Aircraft Systems, Volume 3: Potential Use of UAS by Airport Operators, 48 p. (10/19)
- 220 Guidebook for Developing a Zero or Low Emissions Roadmap at Airports, 107 p. (12/19)

## **OTHER**

- TRB Annual Report + Overview
- ACRP Annual Report of Progress 88 p. (12/19)
- NCHRP Annual Report of Progress 60 p. (12/19)
- TCRP Annual Report of Progress 140 p. (12/19)

3 IDEA Annual Reports