

Publications Catalog

Update

Contents

Research Reports, by Subject Area	1
Transportation and the Economy	1
Transportation Safety and Traffic Flow	1
Transportation Infrastructure	2
Transportation Planning and the Environment	3
Annual Reports	3
Journals	3
Newsletters	3
Proceedings	4
Videos	4



This 2009 update supplements the *CTS Publications Catalog* published in 2004 and subsequent annual updates. A complete listing of all publications available from CTS and ordering information may be found online at: www.cts.umn.edu

Research Reports

Transportation and the Economy

Funding Surface Transportation in Minnesota: Past, Present and Prospects

Report no. CTS 08-23
www.cts.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1068
(951 KB PDF) 49 pp.

Transportation Safety and Traffic Flow

Access to Destinations: Computation of Travel Time Data for Access to Destinations Study

Taek Mu Kwon, Scott Klar
Report no. Mn/DOT 2008-38
www.lrrb.org/PDF/200838.pdf
(1.0 MB PDF) 38 pp.

Access to Destinations: Twin Cities Metro-wide Traffic Micro-simulation Feasibility Investigation

John Hourdos, Panos Michalopoulos
Report no. Mn/DOT 2008-15
www.lrrb.org/PDF/200815.pdf
(1.3 MB PDF) 38 pp.

Accident Prevention Based on Automatic Detection of Accident Prone Traffic Conditions: Phase I

John Hourdos, Vishnu Garg, Panos Michalopoulos
Report no. CTS 08-12
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=984
(4.0 MB PDF) 169 pp.

Advanced BRT Volume I: Innovative Technologies for Dedicated Roadways

Mathew Bevilacqua, Max Donath, Craig Shankwitz,
Report no. CTS 08-06
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=950
(1.9 MB PDF) 124 pp.

Advanced BRT Volume II: Innovative Technologies for Dedicated Roadways

Pi-Ming Cheng, Max Donath, Alec Gorjestani, Arvind Menon, Bryan Newstrom, Craig Shankwitz
Report no. CTS 08-07
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1084
(965 KB PDF) 44 pp.

A Bus Signal Priority System Using Automatic Vehicle Location / Global Position Systems and Wireless Communication Systems

Chen-fu Liao, Gary A. Davis
Report no. CTS 08-18
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1036
(3.6 MB PDF) 111 pp.

Cross Median Crashes: Identification and Countermeasures

Gary A. Davis
Report no. Mn/DOT 2008-17
www.lrrb.org/pdf/200817.pdf
(999 KB PDF) 63 pp.

Development of Real-Time Traffic Adaptive Crash Reduction Measures for the Westbound I-94/35W Commons Section

John Hourdos, Wuping Xin, Panos Michalopoulos
Report no. CTS 08-28
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1066
(5.2 MB PDF) 118 pp.

Development of a Real-Time Arterial Performance Monitoring System Using Traffic Data Available from Existing Signal Systems

Henry Liu, Wenteng Ma, Xinkai Wu, Heng Hu
Report no. Mn/DOT 2009-01
www.lrrb.org/PDF/200901.pdf
(3.1 MB PDF) 117 pp.

Directional Sound for Long Distance Auditory Warnings from a Highway Construction Work Zone

Gridsada Phanomchoeng, Rajesh Rajamani, John Hourdos
Report no. CTS 08-20
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1058
(1.5 MB PDF) 45 pp.

The Effectiveness and Safety of Traffic and Non-Traffic Related Messages Presented on Changeable Message Signs—Phase II

Kathleen A. Harder, John Bloomfield
Report no. Mn/DOT 2008-27
www.lrrb.org/PDF/200827.pdf
(470 KB PDF) 84 pp.

Enhanced Micro-Simulation Models for Accurate Safety Assessment of Traffic Management ITS Solutions

Wuping Xin, John Hourdos, Panos Michalopoulos
Report no. CTS 08-17
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1030
(4.2 MB PDF) 107 pp.

FY06 NATSRL—Integration of Automated Vehicle System Data Acquisition into Fleet Management

David A. Wyrick, Chinweike Eseonu
Report no. CTS 08-05
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=948
(397 KB PDF) 46 pp.

Five-County Minnesota Case Study: Rural Roadway Fatal Crash Characteristics and Select Safety Improvement Programs

Tyler M. Patterson, Lee Munnich
Report no. CTS 08-03
www.cts.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1038
(601 KB PDF) 32 pp.

Fleet Asset Life Cycle Costing with Intelligent Vehicles

David A. Wyrick, Santiago Erquicia
Report no. CTS 08-13
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=970
(811 KB PDF) 171 pp.

Freight Performance Measure Systems (FPMS) System Evaluation and Data Analysis

Chen-fu Liao
Report no. CTS 08-01
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=862
(523 KB PDF) 24 pp.

Generational Perspective on Teen and Older Drivers on Traffic Safety in Rural and Urban Communities

Michael Manser, Mick Rakauskas, Nic Ward, Pam Jones, Amy Mayer, Rossana Armson
Report no. Mn/DOT 2008-36
www.lrrb.org/PDF/200836.pdf
(4.1 MB PDF) 94 pp.

Integration of Infrared Imaging for a Head Up Display Lane Keeping and Collision Avoidance System

Pi-Ming Cheng, Craig Shankwitz
Report no. CTS 08-09
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=932
(670 KB PDF) 28 pp.

Multi-Camera Monitoring of Human Activities at Critical Transportation Infrastructure Sites

Evan Ribnick, A Joshi, Nikolaos P. Papanikolopoulos
Report no. CTS 08-08
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=920
(1.0 MB PDF) 42 pp.

Novel Battery-Less Wireless Sensors for Traffic Flow Measurement

Krishna Vijayaraghavan, Rajesh Rajamani
Report no. CTS 08-16
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1032
(577 KB PDF) 42 pp.

Overview of Rural Intersection Crashes at Candidate Intersections for the Intersection Decision Support (IDS) System

Howard Preston, Richard Storm, Max Donath, Craig Shankwitz, Ginny Crowson
Report no. Mn/DOT 2008-53
www.lrrb.org/pdf/200853.pdf
(540 KB PDF) 41 pp.

Portable Cellular Wireless Mesh Sensor Network for Vehicle Tracking in an Intersection

Taek Mu Kwon, Ryan Weidemann
Report no. CTS 08-29
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1052
(1.7 MB PDF) 78 pp.

Portable Traffic Data Processor

Nikolaos P. Papanikolopoulos, Harini Veeraraghavan
Report no. CTS 08-14
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=976
(990 KB PDF) 47 pp.

Psychological and Roadway Correlates of Aggressive Driving

Kathleen A. Harder, Terry A. Kinney, John Bloomfield
Report no. CTS 08-30
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1080
(182 KB PDF) 35 pp.

RPV/UAV Surveillance for Transportation Management and Security

Demoz Gebre-Egziabher
Report no. CTS 08-27
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1056
(3.6 MB PDF) 37 pp.

Review of California's Rural Intersection Crashes: Application of Methodology for Identifying Intersections for Intersection Decision Support (IDS)

Howard Preston, Richard Storm, Max Donath, Craig Shankwitz
Report no. Mn/DOT 2008-52
www.lrrb.org/PDF/200852.pdf
(1.1 MB PDF) 42 pp.

Review of Nevada's Rural Intersection Crashes: Application of Methodology for Identifying Intersections for Intersection Decision Support (IDS)

Howard Preston, Richard Storm, Max Donath, Craig Shankwitz
Report no. Mn/DOT 2008-31
www.lrrb.org/PDF/200831.pdf
(734 KB PDF) 36 pp.

Review of New Hampshire's Rural Intersection Crashes: Application of Methodology for Identifying Intersections for Intersection Decision Support (IDS)

Howard Preston, Richard Storm, Max Donath, Craig Shankwitz
Report no. Mn/DOT 2008-30
www.lrrb.org/PDF/200830.pdf
(1.4 MB PDF) 40 pp.

Rural Transportation Safety and the Strategic Highway Safety Plan: An Examination of Select State Programs and Practices

Alec More, Lee Munnich
Report no. CTS 08-02
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=880
(3.6 MB PDF) 32 pp.

TDRL Projects: Solar/Wind Hybrid Renewable Light Pole, Gravel-Road Traffic Counter, DLL-Based Traffic Software Development Kit

Taek Mu Kwon, Ryan Weidemann, Dan Cinnamon
Report no. CTS 08-21
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1000
(2.1 MB PDF) 79 pp.

Transportation Infrastructure

Determination of Optimum Time for the Application of Surface Treatments to Asphalt Concrete Pavements—Phase II

Mihai O. Marasteanu, Raul Velasquez, William Herb, John Tweet, Mugur Turos, Mark Watson, Heinz G. Stefan
Report no. Mn/DOT 2008-16
www.lrrb.org/PDF/200816.pdf
(31 MB) 287 pp.

Development of Flexural Vibration Inspection Techniques to Rapidly Assess the Structural Health of Rural Bridge Systems

Brian Brashaw, Robert Vatalaro, Xiping Wang, Kevin Sarvela
Report no. CTS 08-22
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1016
(2.6 MB PDF) 76 pp.

Development of Improved Test Rolling Methods for Roadway Embankment Construction

J. P. Hambleton, Andrew Drescher
Report no. Mn/DOT 2008-08
www.lrrb.org/PDF/200808.pdf
(9.5 MB PDF) 288 pp.

Effects of Seasonal Changes on Ride Quality at MnROAD

Lev Khazanovich, Peter Bly, Atika Shamin, Randal J. Barnes
Report no. Mn/DOT 2008-23
www.lrrb.org/PDF/200823.pdf
(2.4 MB PDF) 137 pp.

Intelligent Compaction Implementation: Research Assessment

Joseph F. Labuz, Bojan Guzina, Lev Khazanovich
Report no. Mn/DOT 2008-22
www.lrrb.org/PDF/200822.pdf
(445 KB PDF) 81 pp.

Monitoring and Analysis of Mn/DOT Precast Composite Slab Span System (PCSSS)

Matthew Smith, Whitney Eriksson, Carol K. Shield, Catherine E. French
Report no. Mn/DOT 2008-41
www.lrrb.org/PDF/200841.pdf
(14.0 MB PDF) 219 pp.

Pavement Rehabilitation Selection

Shongtao Dai, Eugene L. Skok, Thomas M. Westover, Joseph F. Labuz, Erland Lukanen
Report no. Mn/DOT 2008-06
www.lrrb.org/PDF/200806.pdf
(1.6 MB PDF) 143 pp.

Self-Compacting Concrete (SCC) for Prestressed Bridge Girders

Bulent Erkmen, Carol K. Shield, Catherine E. French
Report no. Mn/DOT 2008-51
www.lrrb.org/PDF/200851.pdf
(4.0 MB PDF) 347 pp.

TH 241 Column-Supported Embankment

Gregory Wachman, Joseph F. Labuz
Report no. CTS 08-11
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=930
(4.1 MB PDF) 111 pp.

Transportation Planning and the Environment

Access to Destinations: How Close is Close Enough? Estimating Accurate Distance Decay Functions for Multiple Modes and Different Purposes

Michael Iacono, Kevin Krizek, Ahmed M. El-Geneidy
Report no. Mn/DOT 2008-11
www.lrrb.org/PDF/200811.pdf
(2.5 MB PDF) 76 pp.

Access to Destinations: Monitoring Land Use Activity Changes in the Twin Cities Metropolitan Region
Michael Iacono, David M. Levinson, Ahmed M. El-Geneidy, Rania Wasfi, Shanjiang Zhu
Report no. Mn/DOT 2008-26
www.lrrb.org/PDF/200826.pdf
(6.8 MB PDF) 107 pp.

Access to Destinations: Parcel Level Land Use Data Acquisition and Analysis for Measuring Non-Auto Accessibility
Jessica Horning, Ahmed M. El-Geneidy, Kevin Krizek
Report no. Mn/DOT 2008-19
www.lrrb.org/PDF/200819.pdf
(1.4 MB PDF) 43 pp.

Collaboration in Fighting Traffic Congestion: A Study of Minnesota's Urban Partnership Agreement
John M. Bryson, Barbara C. Crosby, Melissa M. Stone, J. Clare Mortensen
Report no. CTS 08-25
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1060
(297 KB PDF) 48 pp.

Compaction Remediation for Construction Sites
Jonathan Chaplin, Min Min, Reid Pulley
Report no. Mn/DOT 2008-01
www.lrrb.org/PDF/200801.pdf
(519 KB PDF) 33 pp.

Design Tool for Controlling Runoff and Sediment from Highway Construction
Bruce Wilson, Aleksey Sheshukov, Aida Mendez
Report no. Mn/DOT 2008-35
www.lrrb.org/PDF/200835.pdf
(4.4 MB PDF) 109 pp.

Development of a Trash Harvester for MnDOT—Phase II
Jonathan Chaplin, Emmanuel Magisson
Report no. Mn/DOT 2008-21
www.lrrb.org/PDF/200821.pdf
(5.2 MB PDF) 77 pp.

Examining the Impacts of Residential Self-Selection On Travel Behavior: Methodologies and Empirical Findings
Jason X. Cao, P. L. Mokhtarian, S. L. Handy
Report no. CTS 08-24
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1008
(432 KB PDF) 70 pp.

The Impact of Bicycling Facilities on Commute Mode Share
Frank Douma, Fay Cleaveland
Report no. Mn/DOT 2008-33
www.lrrb.org/PDF/200833.pdf
(877 KB PDF) 39 pp.

Improved Methodologies for the Inoculation of Prairie Legumes in Roadside/Revegetation Settings
Peter H. Graham, Elena Beyhaut, Becki Tlusty
Report no. Mn/DOT 2008-48
www.lrrb.org/PDF/200848.pdf
(680 KB PDF) 92 pp.

Improving Capacity Planning for Demand-Responsive Paratransit Services
Diwakar Gupta, Hao-Wei Chen, Lisa Miller, Fajranni Surya
Report no. Mn/DOT 2008-09
www.lrrb.org/PDF/200809.pdf
(952 KB PDF) 78 pp.

Improving Carsharing and Transit Service with ITS
Frank Douma, Ryan Gaug, Tom Horan, Ben Schooley
Report no. Mn/DOT 2008-43
www.lrrb.org/PDF/200843.pdf
(584 KB PDF) 80 pp.

An Inventory of the Public Land Surveys Records for Minnesota: The Special Instructions
Rod Squires
Report no. Mn/DOT 2008-05
www.lrrb.org/PDF/200805.pdf
(16.9 MB PDF) 224 pp.

Methods to Incorporate Historic Surface Hydrology Layer in Mn/Model [Phase 4] Using Existing Geographic Information System Data
Stacey L. Stark, Patrice M. Farrell, Susan C. Mulholland
Report no. Mn/DOT 2008-13
www.lrrb.org/PDF/200813.pdf
(5.7 MB PDF) 56 pp.

Places and Networks: The Changing Landscape of Transportation and Technology Final Summary Report of the STAR-TEA 21 Project
Mark Berndt, Tom Horan, Lei Zhang, Michael Marich, Bhanu M. Yerra, Richard Burkhard, Andrew Johnson, Ryan Wilson, Denise McCabe, Ugur Kaplancali, Peng Xu, Adam Kokotovich, Pavithra Parthasarathi, Ben Schooley, Colbey Sullivan, David M. Levinson, Lee Munnich, Jr, Frank Douma, Chandler Duncan, S. L. Handy, Richard Bolan,

Yi Li, Ramachandra Karamalaputi, Kevin Krizek
Report no. CTS 08-15
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=1062
(23.0 MB PDF) 463 pp.

Production and Wind Dispersal of Canada Thistle (*Cirsium arvense* L.) Achenes
R L. Becker, M J. Haar, B D. Kinkaid, L D. Klossner, F Forcella
Report no. Mn/DOT 2008-39
www.lrrb.org/PDF/200839.pdf
(3.0 MB PDF) 50 pp.

Reducing Greenhouse Gas Emissions From Transportation Sources in Minnesota
Adam Boies, David B. Kittelson, Winthrop J. Watts, Jan Lucke, Laurie McGinnis, Julian Marshall, Tyler M. Patterson, Peter Nussbaum, Elizabeth Wilson
Report no. CTS 08-10
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=936
(1.8 MB PDF) 60 pp.

A Smaller Carbon Footprint: Research Suggests Combining Strategies to Meet Legislative Goals in the Transportation Sector
Adam Boies, David B. Kittelson, Winthrop J. Watts, Jan Lucke, Laurie McGinnis, Julian Marshall, Peter Nussbaum, Elizabeth Wilson
Report no. CTS 08-10S
www.its.umn.edu/Publications/ResearchReports/pdfdownload.pl?id=938
(460 KB PDF) 12 pp.

Study of Environmental Effects of De-Icing Salt on Water Quality in the Twin Cities Metropolitan Area, Minnesota
Heinz G. Stefan, Eric Novotny, Andrew Sander, Omid Mohseni
Report no. Mn/DOT 2008-42
www.lrrb.org/PDF/200842.pdf
(4.5 MB PDF) 88 pp.

Wet Meadow Revegetation Following Invasive Plant Control
Basil V. Iannone III, Susan M. Galatowitsch
Report no. Mn/DOT 2008-04
www.lrrb.org/PDF/200804.pdf
(856 KB PDF) 76 pp.

Annual Reports

2008 CTS Annual Report
www.its.umn.edu/Publications/AnnualReports
(5.4 MB PDF) 36 pp.

2008 ITS Institute Annual Report
www.its.umn.edu/Publications/AnnualReport/2008
(2.3 MB PDF) 60 pp.

2008 Local OPERA Program Annual Report
www.mnltap.umn.edu/opera
(347 KB PDF) 20 pp.

2008 TERRA Annual Report
www.terraroadalliance.org/publications
(1.1 MB PDF) 16 pp.

Journals

Journal of Transport and Land Use
An open-access, peer-reviewed online journal publishing original interdisciplinary papers on the interaction of transport and land use (quarterly)
www.jtlu.org

Newsletters

CTS publishes print and electronic newsletters covering many facets of transportation, including research, public policy, and engineering. Subscribe online at:
www.its.umn.edu/publications/newsletters

Print Newsletters

CTS Report
A monthly report on transportation research, education, and outreach at the University of Minnesota (monthly)

ITS Institute Sensor
Research advances from the Intelligent Transportation Systems (ITS) Institute (periodic).

Minnesota LTAP Exchange
A newsletter of the Minnesota Local Technical Assistance Program (quarterly)

AirTAP Briefings
News and how-to information for personnel operating, maintaining, and administering Minnesota's public-use airports (periodic)
Available in both print and electronic formats

E-mail Newsletters

CTS Research E-News

The latest announcements and findings in transportation research (monthly)

Access to Destinations E-News

Updates on the Access to Destinations Study, featuring research results, event announcements, and related information (periodic)

CTS Freight & Logistics E-News

News and events from the community of freight and logistics professionals (quarterly)

Community Transportation E-News

Events and initiatives involving non-traditional transit and services (periodic)

Minnesota LTAP Hot Topics

New publications and resources from various sources, plus other items of interest to local agencies (periodic)

Rural Safety News

The latest research and resources concerning rural safety from the Center for Excellence in Rural Safety, or CERS (quarterly)

TERRA E-News

A newsletter for the Transportation Engineering and Road Research Alliance (quarterly)

Proceedings

2008 Oberstar Forum: The Next Authorization: Transforming Transportation Policy? April 7, 2008, Minneapolis, Minnesota

www.cts.umn.edu/Events/OberstarForum/2008
(656 KB PDF), 16 pp.

12th Annual Freight and Logistic Symposium December 5, 2008, Minneapolis, Minnesota

www.cts.umn.edu/Publications
(376 KB PDF), 12 pp.

Minnesota Pavement Conference Session Summaries

February 14, 2008, St. Paul, Minnesota

www.cts.umn.edu/Publications
(375 KB PDF), 20 pp.

Toward Zero Deaths 2008 Conference

October 7-8, 2008, Rochester, Minnesota

www.minnesotatzd.org/events/conference/2008
(1.2 MB PDF), 20 pp.

Videos

Local Government Video Catalog, 2008

www.mnltap.umn.edu/pdf/VideoCatalog_2008.pdf
(1.2 MB PDF) 120 pp.

CTS Seminar Series—Fall Semester 2008

Available for viewing online at:
www.its.umn.edu/Events/SeminarSeries/2008

September 9

“Evaluation of Platoon-Priority and Advanced Warning Flasher System at High-Speed Signalized Intersections”

Henry Liu, Assistant Professor, Department of Civil Engineering, University of Minnesota–Twin Cities

September 23

“Summary of Research Activities at the Center for Sustainable Mobility”

Hesham Rakha, Professor, Department of Civil Engineering, and Director, Center for Sustainable Mobility, Virginia Tech

September 30

“Intelligent Compaction Implementation”

Joe Labuz, Professor, Department of Civil Engineering, University of Minnesota–Twin Cities; Bojan Guzina, Associate Professor, Department of Civil Engineering, University of Minnesota–Twin Cities; John Siekmeier, Senior Research Engineer, Minnesota Department of Transportation

October 7

“Solar and Wind Hybrid Electric Generators for Rural ITS Applications”

Taek Kwon, Professor, Department of Electrical and Computer Engineering, University of Minnesota Duluth

October 14

“Transportation Policy and Technology Options to Reduce Greenhouse Gas Emissions in Minnesota”

David Kittelson, Professor, Department of Mechanical Engineering, University of Minnesota–Twin Cities

October 21

“Intelligent Transportation Systems and Safety: Innovative Uses of Information Systems to Improve Timeliness and Quality of Emergency Response”

Tom Horan, Research Director, Center for Excellence in Rural Safety, University of Minnesota–Twin Cities

October 28

“Economic Impacts of Transitways: The Hiawatha Light Rail Line”

Ed Goetz, Professor, Humphrey Institute of Public Affairs, University of Minnesota–Twin Cities

November 4

“Improving Transit System Performance with the Benefit of Automatic Data Collection Systems”

Nigel Wilson, Professor, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology (MIT)

November 11

“Arterial Data Acquisition and Network-Wide Travel Time Estimation—Phase II”

John Hourdos, Director, Minnesota Traffic Observatory, University of Minnesota–Twin Cities

November 18

“A Predictive Study of Use Impacts on the Denali Park Road”

Ted Morris, Laboratory Manager, Minnesota Traffic Observatory, University of Minnesota–Twin Cities

November 25

“Rolling Out Measures of Non-Motorized Accessibility: What Can We Now Say?”

Kevin Krizek, Associate Professor, College of Architecture and Planning, University of Colorado Denver

December 2

“A Perspective on ITS Research at the USDOT”

Shelley Row, Director, ITS Joint Program Office, U.S. Department of Transportation

How to Obtain These Publications

This 2009 update supplements the *CTS Publications Catalog* published in 2004 and subsequent annual updates. It lists transportation-related research reports produced by faculty and researchers at the University of Minnesota and published by CTS, the Minnesota Department of Transportation (Mn/DOT), or the Minnesota Local Road Research Board (LRRB). This update also features publications, videos, and other materials produced by CTS and its affiliated programs.

Titles of publications are listed in alphabetical order under subject area. Most publications, where noted, are available in electronic format online at no charge. Publications also may be requested from CTS. A complete listing of all publications available from CTS and ordering information may be found online at:


www.cts.umn.edu/publications

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