# **National Technical Reports Library**

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#### PB2012102712

Developments in Weather Responsive Traffic Management Strategies: Final Report. (April 2009-

Battelle Washington Operations, DC. 2011, 254p

FHWA-JPO-11-086

#### **Related Categories/Sub-Categories:**

43G (Transportation)

55C (Meteorological Data Collection, Analysis, &

Weather Forecasting)

85H (Road Transportation)

88B (Information Systems)

91B (Transportation & Traffic Planning)

Keywords: Traffic management strategies, Weather impacts, Road Weather Management.

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#### PB2012102713

Developments in Weather Responsive Traffic Management Strategies: Summary Report: 1st National Workshop and Stakeholder Meeting on Weather Responsive Traffic Management (WRTM).

Battelle Washington Operations, DC. 2011, 27p

#### Related Categories/Sub-Categories:

43G (Transportation)

55C (Meteorological Data Collection, Analysis,

& Weather Forecasting)

85H (Road Transportation)

88B (Information Systems)

91B (Transportation & Traffic Planning) Keywords: Traffic management strategies, Weather impacts, Road Weather Management.

#### PB2012102709

Human Factors Analysis of Road Weather Advisory and Control Information: Final Report. Battelle-Seattle Research Center, WA. Meridian Environmental Technology, Inc., Grand Forks, ND. Texas Transportation Inst., College Station. FHWA-JPO-10-053

#### **Related Categories/Sub-Categories:**

43G (Transportation)

55C (Meteorological Data Collection, Analysis,

& Weather Forecasting)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

95D (Human Factors Engineering)

Keywords: Human factors engineering, Weather information dissemination, Road weather information.

# **Winter Driving Safety**



#### PB2007110738

Guidelines for the Selection of Snow and Ice Control Materials to Mitigate Environmental Impacts.

Levelton (B.H.) and Associates Ltd., Vancouver (British Columbia).

2007, 211p

NCHRP-577

#### Related Categories/Sub-Categories:

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation) Keywords: Snow and ice control, Roads and Highways, Environmental impacts.

PB2004103526

Optimization of Anti-Icing and Sanding Operations via Mobile Data Collision in Southeast

Alaska Dept. of Transportation and Public Facilities, Fairbanks. ThomTech Design, Saint Paul, MN.

2003, 59p

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Deicing materials, Anti-icing additives, Sanding.



Avalanche Hazard Reduction Using the Dopplemayr 'Avalanche Guard' Cache and Mortar Technology.

Winter Alpine Engineering, Mariposa, CA. 2004, 92p

FHFWA/WY-05/02F

#### Related Categories/Sub-Categories:

48H (Snow, Ice, & Permafrost) 79A (Ammunition, Explosives, & Pyrotechnics) 85D (Transportation Safety)

85H (Road Transportation)

Keywords: Avalanches, Accident reduction, Snow.

#### PB2006100534

FHWA/WY-05/05F

Avalanche Hazard Reduction Using Wind Drift Disrupters (Snow Sails) Phase I and Phase II. MSI-Foothill/InterAlpine, Sedona, AZ. 2005,60p

#### Related Categories/Sub-Categories:

43G (Transportation) 85D (Transportation Safety) 85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Avalanches, Snow sails, Wind slabs.

#### PB2004106283

Cable Guardrail (Interim Report).

Colorado Dept. of Transportation, Denver. Research Branch. 2004, 28p

CDOT-DTD-R-2004-10

#### Related Categories/Sub-Categories:

43G (Transportation) 85D (Transportation Safety) 85H (Road Transportation)

Keywords: Drifting snow, Guardrails, Accidents.

### **Key to Database Fields Used**

short listing of recently acquired technical reports.

**NTIS Order Number** Report Year, Page Count
Report Number/ISBN13 (if available)
Related Categories/Sub-categories
(where the document is also indexed)
Keywords

**RSS Feeds** are available in your choice of

#### PB2005101362

Snow and Ice Control: Guidelines for Materials and Methods.

Midwest Research Inst., Kansas City, MO. AFM, Inc., White Plains, NY. Weather Solutions Group, Chesterfield, MO.

2004, 54p

NCHRP-526

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Snow removal, Ice removal, Winter driving.

#### PB2003106811

Statewide/Rural Intelligent Transportation Systems (ITS): Operations and Maintenance 2002

Federal Highway Administration, Washington, DC. ITS Joint Program Office.

2003, 16p

#### Related Categories/Sub-Categories:

91B (Transportation & Traffic Planning)

43G (Transportation)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Ice removal, Deicing, Intelligent

Transportation Systems.

#### PB2003102167

Safety and Maintenance Services. Maintenance.

Transportation Research Board, Washington, DC. 2002, 118p

TRB/TRR-1794

ISBN-0-309-07720-6

See also PB2002-100034.

#### Related Categories/Sub-Categories:

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

85D (Transportation Safety)

85H (Road Transportation),

Keywords: Highway maintenance, Winter, Work zone safety.

#### PB2002105699

Arttu Progress Report 1.

Helsinki Univ. of Technology, Espoo (Finland). Lab. of Automotive Technology.

2001,50p

ISBN-951-22-5672-X

#### Related Categories/Sub-Categories:

85D (Transportation Safety)

85H (Road Transportation)

94K (Laboratory & Test Facility Design &

Keywords: Friction tests, Tire traction, Arctic driving.

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#### PB2002100034

Transportation Work-Zone Safety and Winter Services. Maintenance. Transportation Research Record. Journal of the Transportation Research Board No. 1745.

Transportation Research Board, Washington, DC. 2001, 77p

ISBN-0-309-07203-4

See also PB2003-102167.

#### **Related Categories/Sub-Categories:**

43G (Transportation)

50A (Highway Engineering)

91B (Transportation & Traffic Planning)

85D (Transportation Safety)

85H (Road Transportation),

Keywords: Highway maintenance, Winter, Work zone safety.

#### PB2006109778

Evaluation of Deicer Applications on Open Graded Pavements.

Oregon Dept. of Transportation, Salem. Research Unit.

2006, 48p

FHWA-OR-RD-06-12

#### Related Categories/Sub-Categories:

50C (Construction Equipment, Materials, & Supplies)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

99F (Physical & Theoretical Chemistry)

Keywords: Deicers, Skid resistance, Winter maintenance.

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### **Major Subject Categories**

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41	Manufacturing Technology	34
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44	Health Care	
45	Communication	
46	Physics	
47	Ocean Sciences & Technology	
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99	Chemistry	129
* [	or a listing of Scone Notes that defines the specific topical co	ntent for each category, go to

#### PB2002104755

Automated Road Closure Gate.

South Dakota School of Mines and Technology, Rapid City.

2000, 31p

SD2000-11-F

#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Remote control, Winter driving,

Highway closures.

#### PB2012102711

Seasons of Achievement: Accomplishments of the Road Weather Management Program.

Department of Transportation, Washington, DC. Research & Innovative Technology Administration (RITA).

2010, 12p

FHWA-JPO-10-004

#### **Related Categories/Sub-Categories:**

43G (Transportation)

55C (Meteorological Data Collection, Analysis, &

Weather Forecasting)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Roadway operations, Adverse weather, Winter maintenance.

#### PB2000106088

Valtion Teknillinen Tutkimuskeskus, Espoo (Finland). Communities and Infrastructure, Transport and Urban Planning.

1999, 170p

VTT-PUBS-401, ISBN-951-38-5546-5

#### **Related Categories/Sub-Categories:**

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Traffic safety, Motor vehicle accidents, Winter driving.

#### **Subject Category Codes/Classification**

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

<sup>\*</sup> For a listing of Scope Notes that defines the specific topical content for each category, go to http://www.ntis.gov/pdf/scopenotes.pdf

<sup>\*\*</sup> Quantities represent each new report assigned on average to 3-5 categories.

Mobility and Safety Impacts of Winter Storm Events in a Freeway Environment. CTRE Project 98-39

Center for Transportation Research and Education, Ames, IA.

2000, 86p

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

91B (Transportation & Traffic Planning)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Snowstorms, Snow, Icy road conditions.

corraitions.

#### PB2001101423

Pavement Monitoring and Interface System to Implement Traffic Signal Timing Plan Changes for Winter Driving; Phase 1.

Wyoming Dept. of Transportation, Cheyenne. Programming Research Unit. Federal Highway Administration, Cheyenne, WY. Wyoming Div. 2000, 38p

FHWA/WY-00/03F

#### Related Categories/Sub-Categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Traffic signal timing, Pavement conditions, Traffic management.

#### PB2010104680

Influence of Roadway Surface Discontinuities on Safety. A State of the Art Report, May 2009.

Transportation Research Board, Washington, DC. 2009, 88p

TRB/E-C-134

See also PB85-114296.

#### Related Categories/Sub-Categories:

50A (Highway Engineering) 85D (Transportation Safety)

85H (Road Transportation)

Keywords: Pavements, Traffic safety, Ice formation.





#### PB2009102365

Work Zones and Maintenance Operations. Transportation Research Record. Journal of the Transportation Research Board No. 2055.

Transportation Research Board, Washington, DC

2008, 156p

TRB-TRR-2055

ISBN-978-0-309-11325-0

#### Related Categories/Sub-Categories:

43G (Transportation)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Work zones, Traffic control, Winter maintenance.

#### PB2010100133

Safety Maintenance and Surface Weather: Transportation Research Record: Journal of the Transportation Research Board, No. 2107. Transportation Research Board, Washington, DC.

2009, 162p

TRB-TRR-2107

#### **Related Categories/Sub-Categories:**

50A (Highway Engineering)

55C (Meteorological Data Collection, Analysis,

& Weather Forecasting)

85D (Transportation Safety)

85H (Road Transportation)

#### PB2010100916

Performance Measurement for Highway Winter Maintenance Operations.

lowa Univ., Iowa City. IIHR-Hydroscience and Engineering.

2009, 129p

IHRB-PROJ-TR-491

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Highway maintenance, Traffic safety, Winter maintenance.

#### PB99165185

Evaluation of Winter Maintenance Material Metering and Placement Equipment.

Maine Dept. of Transportation, Augusta. Transportation Research Div.

1999, 92p

ME-97-7

#### Related Categories/Sub-Categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Snow removal, Ice removal, Icy road conditions.



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Maintenance Services and Surface Weather. Transportation Research Record: Journal of the Transportation Research Board, No. 2169.

2010, 197p

TRB-TRR02169

ISBN 978-0-309-16038-4

#### **Related Categories/Sub-Categories:**

50A (Highway Engineering)

55C (Meteorological Data Collection, Analysis, &

Weather Forecasting)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Traffic control, Highway maintenance, Weather.

#### PB86101862

Evaluation of the Salt Brine Deicing Unit for Snow and Ice Removal in Utah.

Utah Dept. of Transportation, Salt Lake City. Research and Development Unit. 1984, 58p

UDOT-MR-84-1

#### **Related Categories/Sub-Categories:**

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Deicing, Snow removal, Ice prevention.

#### PB85114296

Influence of Roadway Surface Discontinuities on Safety.

Transportation Research Board, Washington, DC. 1984, 56p

ISBN-0-309-03702-6

#### Related Categories/Sub-Categories:

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Pavements, Surface roughness, Ice formation.

#### PB98141187

Cost-Effective Microwave Sensing of Highway Road Conditions.

Wyoming Univ., Laramie. Dept. of Electrical Engineering.

1998, 24p

TRB/NCHRP-ID031

#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Highway transportation, Road conditions, Remote sensing.

#### PB2011104624

Evaluation of the Utah DOT Weather Operations/ RWIS Program on Traffic Operations.

Montana State Univ., Bozeman. Western

Transportation Inst.

2009, 54p

See also PB2008-101287.

#### Related Categories/Sub-Categories:

43G (Transportation)

55C (Meteorological Data Collection, Analysis, &

Weather Forecasting)

85D (Transportation Safety)

85H (Road Transportation)

88B (Information Systems)

91B (Transportation & Traffic Planning)

Keywords: Weather forecasts, Traffic operations, Road weather information Systems (RWIS).

#### PB89113468

Evaluation of the Accuracy, Reliability, Effectiveness, Expansibility, and Additional Potential Benefits of the SCAN 16 EF Moisture, Frost and Ice Early Warning System.

New Jersey Dept. of Transportation, Trenton. 1988, 48p

R-88-003-7750

#### **Related Categories/Sub-Categories:**

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

55C (Meteorological Data Collection, Analysis, &

Weather Forecasting)

85D (Transportation Safety)

85H (Road Transportation)

911 (Emergency Services & Planning)

Keywords: Weather forecasting, Snow removal, Ice control.

#### PB90246760

Synthesis of Safety Research: Adverse Environmental Conditions.

Parker (Martin R.) and Associates, Inc., Wayne, Ml. 1990, 49p

FHWA/TS-89/046

#### Related Categories/Sub-Categories:

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Highway safety, Ice, Disasters.

#### PB2011105782

Snow Rendering for Interactive Snowplow Simulation-Supporting Safety in Snowplow Design, February 2011.

Minnesota Univ.-Duluth. Dept. of Computer Science.

2011, 38p

CTS 11-04

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Snow rendering, Snowplow safety, Vehicle lighting.

#### PB2012100332

Snow Rendering for Interactive Snowplow Simulation – Supporting Safety in Snowplow Design, October 2011.

Minnesota Univ.-Duluth. Dept. of Computer Science.

2011,61p

CTS-11-23

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Snow rendering, Snowplow safety, Vehicle lighting.

#### PB88141825

Performance of Trucks Braking on Ice.

Michigan Univ., Ann Arbor. Transportation Research Inst.

1987, 201p

UMTRI-87-23

FHWA/MC-88/045

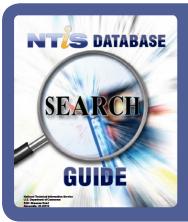
#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Truck performance, Braking, Ice.



#### **Just Revised: the NTIS Database Search Guide**

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Chemistry of Deicing Roads: Penetrating the Ice.

Minnesota Univ., Minneapolis. Dept. of Chemical Engineering and Materials Science.

1988, 27p

UM-TOC-25

MN/RC-88/6

#### **Related Categories/Sub-Categories:**

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

99F (Physical & Theoretical Chemistry)

Keywords: Deicing, Deicers, Ice prevention.

#### PB98147200

Traffic Safety Digest: A Compendium of Innovative State and Community Traffic Safety Projects, Winter 1998.

National Highway Traffic Safety Administration,

Washington, DC.

1998, 72p

See also PB98-102445.

#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

88E (Reference Materials)

91B (Transportation & Traffic Planning)

Keywords: Motorcycle safety, Pedestrian safety,

Bicycle safety.

#### PB90199639

Snowplow Lighting Study.

Federal Highway Administration, St. Paul, MN.

Minnesota Div.

1989, 58p

MN/RD-89/03

#### **Related Categories/Sub-Categories:**

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Motor vehicle accidents, Vehicle

lighting, Snow plows.

#### PB96150529

Maintenance Management and Safety.

Transportation Research Board, Washington, DC.

1995, 88p

TRB/TRR-1509

ISBN-0-309-06205-5

#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Traffic management, Truck drivers, Ice.

#### PB90132598

Tire Chain Effectiveness Study: Report to the Legislature.

California Highway Patrol, Sacramento. 1989, 142p

#### Related Categories/Sub-Categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Tire chains, Studded tires, Snow tires.

#### PB93216323

Evaluating the Potential of Remote Sensing Rural Road and Travel Conditions.

1992, 80p

MPC-92-10

#### Related Categories/Sub-Categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Rural highways, Road conditions,

Remote Weather Information System (RWIS).

#### PB93216331

Motorist Information Needs and Changeable Sign Messages for Adverse Winter Travel.

Mountain-Plains Consortium.

1992, 109p

MPC-92-11

#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Winter driving, Road conditions,

Motorist information needs.

#### PB96109699

Evaluation of the 'Share-the-Road' Campaign.

Michigan State Univ., East Lansing. Coll. of Engineering.

1995, 79p

GLCTTR-71-95/01

#### **Related Categories/Sub-Categories:**

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Heavy trucks, Highway safety programs, Snow.

#### PB98128572

Remote Passive Road Ice Sensor System (RPRISS).

Transportation Research Board, Washington, DC. 1997, 30p

TRB/IDEA/ITS-34

#### Related Categories/Sub-Categories:

48H (Snow, Ice, & Permafrost)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Road surfaces, Ice, Infrared detection.

#### PB2012102703

Best Practices for Road Weather Management, Version 2.0.

 ${\it Mitretek\ Systems, Inc., Washington, DC.}$ 

2003, 131p

FHWA-OP-03-081

#### Related Categories/Sub-Categories:

43G (Transportation)

55C (Meteorological Data Collection, Analysis, &

Weather Forecasting)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning)

Keywords: Adverse weather, Road weather management, Inclement weather conditions.

#### PB99165185

Evaluation of Winter Maintenance Material Metering and Placement Equipment.

Maine Dept. of Transportation, Augusta.

Transportation Research Div.

1999, 92p

ME-97-7

#### Related Categories/Sub-Categories:

43G (Transportation)

85D (Transportation Safety)

85H (Road Transportation)

Keywords: Snow removal, Ice removal, Icy road conditions.

#### PB93126878

Maintenance Management, Traffic Safety, and Snow Removal.

Transportation Research Board, Washington, DC.

1992, 89p TRB/TRR-1352

IND/ INN-1332

## ISBN-0-309-05216-5 Related Categories/Sub-Categories:

43G (Transportation)

sites, Traffic controls.

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation)

91B (Transportation & Traffic Planning) Keywords: Highway maintenance, Construction

**PB91113001**Evaluation Procedures for Deicing Chemicals.

Interim Report.
Midwest Research Inst., Kansas City, MO.

1990, 86p SHRP-W/IR-90-001

#### Related Categories/Sub-Categories:

43G (Transportation)

48H (Snow, Ice, & Permafrost)

50A (Highway Engineering)

85D (Transportation Safety)

85H (Road Transportation) 99F (Physical & Theoretical Chemistry)

91B (Transportation & Traffic Planning)

Keywords: Deicers, Highway maintenance, Ice removal.

volume 4 • number 7 • January 15th, 2012

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## Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order.

NTIS number	Category	Title
PB2000106088	85	Accident Risks of Car Drivers in Wintertime Traffic.
PB2002105699	94	Arttu Progress Report 1.
PB2002104755	91	Automated Road Closure Gate.
PB2005102819	79	Avalanche Hazard Reduction Using the Dopplemayr 'Avalanche Guard' Cache and Mortar Technology.
PB2006100534	91	Avalanche Hazard Reduction Using Wind Drift Disrupters (Snow Sails) Phase I and Phase II.
PB2012102703	55	Best Practices for Road Weather Management, Version 2.0.
PB2004106283	43	Cable Guardrail (Interim Report).
PB89128284	99	Chemistry of Deicing Roads: Penetrating the Ice.
PB98141187	43	Cost-Effective Microwave Sensing of Highway Road Conditions.
PB2012102712	43	Developments in Weather Responsive Traffic Management Strategies: Final Report. (April 2009- June 2011).
PB2012102713	55	Developments in Weather Responsive Traffic Management Strategies: Summary Report: 1st National Workshop and Stakeholder Meeting on Weather Responsive Traffic Management (WRTM).
PB93216323	85	Evaluating the Potential of Remote Sensing Rural Road and Travel Conditions.
PB2006109778	50	Evaluation of Deicer Applications on Open Graded Pavements.
PB89113468	91	Evaluation of the Accuracy, Reliability, Effectiveness, Expansibility, and Additional Potential Benefits of the SCAN 16 EF Moisture, Frost and Ice Early Warning System.
PB86101862	48	Evaluation of the Salt Brine Deicing Unit for Snow and Ice Removal in Utah.
PB96109699	91	Evaluation of the 'Share-the-Road' Campaign.
PB2011104624	43	Evaluation of the Utah DOT Weather Operations/RWIS Program on Traffic Operations.
PB99165185	43	Evaluation of Winter Maintenance Material Metering and Placement Equipment.
PB91113001	48	Evaluation Procedures for Deicing Chemicals. Interim Report.
PB2007110738	48	Guidelines for the Selection of Snow and Ice Control Materials to Mitigate Environmental Impacts.
PB2012102709	95	Human Factors Analysis of Road Weather Advisory and Control Information: Final Report.
PB85114296	50	Influence of Roadway Surface Discontinuities on Safety.
PB2010104680	50	Influence of Roadway Surface Discontinuities on Safety. A State of the Art Report, May 2009.
PB96150529	85	Maintenance Management and Safety.
PB93126878	43	Maintenance Management, Traffic Safety, and Snow Removal.
PB2011100293	85	Maintenance Services and Surface Weather. Transportation Research Record: Journal of the Transportation Research Board, No. 2169.
PB2002104913	48	Mobility and Safety Impacts of Winter Storm Events in a Freeway Environment. CTRE Project 98-39.
PB2012100332	48	Snow Rendering for Interactive Snowplow Simulation – Supporting Safety in Snowplow Design, October 2011.
PB93216331	43	Motorist Information Needs and Changeable Sign Messages for Adverse Winter Travel.
PB2004103526	85	Optimization of Anti-Icing and Sanding Operations via Mobile Data Collision in Southeast Alaska.
PB2001101423	85	Pavement Monitoring and Interface System to Implement Traffic Signal Timing Plan Changes for Winter Driving; Phase 1.
PB2010100916	91	Performance Measurement for Highway Winter Maintenance Operations.
PB88141825	85	Performance of Trucks Braking on Ice.
PB98128572	48	Remote Passive Road Ice Sensor System (RPRISS).
PB2003102167	85	Safety and Maintenance Services. Maintenance.
PB2010100133	55	Safety Maintenance and Surface Weather: Transportation Research Record: Journal of the Transportation Research Board, No. 2107.
PB2012102711	85	Seasons of Achievement: Accomplishments of the Road Weather Management Program.
PB2005101362	50	Snow and Ice Control: Guidelines for Materials and Methods.

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PB90246760	85	Synthesis of Safety Research: Adverse Environmental Conditions.
PB90132598	43	Tire Chain Effectiveness Study: Report to the Legislature.
PB98147200	85	Traffic Safety Digest: A Compendium of Innovative State and Community Traffic Safety Projects, Winter 1998.
PB2002100034	43	Transportation Work-Zone Safety and Winter Services. Maintenance. Transportation Research Record. Journal of the Transportation Research Board No. 1745.
PB2009102365	43	Work Zones and Maintenance Operations. Transportation Research Record. Journal of the Transportation Research Board No. 2055.