

Road Weather Management Product Guide

The Road Weather Management Program (RWMP) resides within the Office of Transportation Operations of the Federal Highway Administration (FHWA). The RWMP seeks to better understand the effects of weather on roadways, and to develop or promote strategies and tools to mitigate those effects. Through a combination of targeted research, collaboration, education and outreach, the RWMP generates many useful products for the transportation community. This Product Guide contains short synopses and links to access a host of these products.



FEDERAL HIGHWAY ADMINISTRATION
ROAD WEATHER MANAGEMENT

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Training & Tools

Fundamentals of Road Weather Management CD-ROM: Professional Development Module

This professional development module provides information on the magnitude of the road weather problem; types of management strategies that can be used; technologies available to support road weather management; and actions that can be taken to address road weather incidents. The module includes a PowerPoint presentation that takes about an hour to complete as well as a supplemental guide. The CD-ROM can be purchased from the Institute of Transportation Engineers (ITE) Bookstore at www.ite.org.



Principles and Tools for Road Weather Management

Principles and Tools for Road Weather Management is a one-day course aimed at transportation managers involved in highway maintenance, highway safety, emergency management, and traffic management. The course introduces them to techniques and strategies for tackling road weather problems, specifically in the implementation of road weather management solutions and allocation of resources. The course highlights how the solutions and resources can reduce the effects of adverse weather on road users and highway agencies. Additional course details are listed on the National Highway Institute web site www.nhi.fhwa.dot.gov/coursedesc.asp?coursenum=1032.



Road Weather Resource Identification Tool

Over the years, the FHWA Road Weather Management Program has gathered hundreds of road weather resources including research reports, articles and other publications. This tool, which contains a database of those resources, has been developed to help transportation professionals find the appropriate road weather documents to suit their specific needs. The tool enables the users to navigate the database resources using a guided search, a menu of topics search or a keyword search. The downloadable tool will be available on the RWMP web site in late 2005.





Clarus Initiative Flyer (Publication No.: FHWA-HOP-04-037)

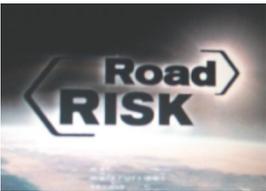
Clarus (which is Latin for “Clear”) is an FHWA initiative to develop and demonstrate an integrated surface transportation weather observation data management system, and to establish a partnership to create a Nationwide Surface Transportation Weather Observing and Forecasting System. The objective of *Clarus* is to provide information to all transportation managers and system users to alleviate the affects of adverse weather (e.g., fatalities, injuries and delay). This flyer provides information on the benefits, goals and milestones of the Initiative. Visit www.clarusinitiative.org/documents/clarus_2_pager.pdf for a copy.



Maintenance Decision Support System (MDSS) Prototype Flyer

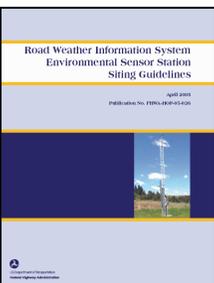
The Road Weather Management Program of the FHWA invests in high risk research in order to develop new and innovative techniques for highway operations. The target audience of these solutions are the owners, operators, maintainers and users of the highway system, to ultimately improve mobility, enhance productivity, and create a safer environment on the nation's roads. To reach this target audience, the research results are made available to an equally critical audience, the private sector service providers, in order to reduce the risk of incorporating these solutions into their product lines. The MDSS for winter operations is one such technology, developed to be used by state and local winter road maintainers. Contact Paul Pisano (Paul.Pisano@fhwa.dot.gov) for a copy.

Reports & Publications



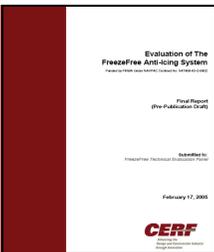
Road Risk DVD (Publication No.: FHWA-HOP-05-024)

This 21-minute video, produced in partnership with The Weather Channel, explores the effects of weather on highway operations and the existing and emerging solutions being implemented to save lives, time and money. The video speaks to on-going efforts to improve operations, particularly under adverse weather conditions, and recognizes the role that technology and Intelligent Transportation Systems play in achieving that goal. Many solutions are highlighted, including low visibility warning systems, maintenance decision support systems, and 511. To request a copy, send a message to WeatherFeedback@fhwa.dot.gov.



ESS Siting Guidelines Document (Publication No.:FHWA-HOP-05-026)

FHWA, the Aurora Pooled Fund Program, and the AASHTO Snow and Ice Cooperative Program have partnered to produce the Road Weather Information System (RWIS) Environmental Sensor Station (ESS) Siting Guidelines. The guidelines provide a set of recommendations to support uniform siting of sensor stations that collect road and weather observations for RWIS. The guidelines also help facilitate the development of a nationwide, integrated road weather observation network, which will aid in mitigating the effects of adverse weather on the highway system. Visit www.ops.fhwa.dot.gov/publications/ess05/index.html for a copy. It is also available as a 1-page informational flyer (Publication No.: FHWA-HOP-05-025). Contact Roemer Alfelor (Roemer.Alfelor@fhwa.dot.gov) for a copy.



Evaluation of the FreezeFree Anti-Icing System

The Civil Engineering Research Foundation (CERF), with support from FHWA, conducted a multi-year study to evaluate the performance of the FreezeFree fixed automated anti-icing spray system. The study was conducted by documenting experiences of users of the system at six different test sites. The report describes the challenge of anti-icing bridge decks and other problem locations, details key lessons learned, and provides a summary of the study evaluation. Contact Paul Pisano (Paul.Pisano@fhwa.dot.gov) for an electronic copy.

