

RoadDSS® Road Weather Forecast – Powered by IceBreak

In road maintenance knowing what is currently going on is critical to a successful maintenance operation; however, this does not provide the whole picture or tell us what is going to happen. Recognizing when to prepare for an icing event or a winter storm can save money, resources, and most importantly, lower your stress level. Today, with so many new maintenance practices, it just as important to know what you do as when you will do it. Vaisala RoadDSS Road Weather Forecast is a tool to help plan your operations, providing you with a traditional atmospheric weather forecast, and a prediction of road surface conditions. Vaisala Road Weather Forecast is an optional component of the RoadDSS Software Suite, and provides you with a 72-hour prediction of conditions at your road weather station location.

The value that Vaisala Road Weather Forecasts provide you is the perfect combination of current observations and predicted weather conditions. To create any weather forecast, current local conditions are important, and Vaisala incorporates data from the Road Weather Information System (RWIS) to provide a baseline for the forecast.

Intelligent Weather

A key concern when building a road weather program is making sure you have a fully integrated system that provides you the value you need. Vaisala RoadDSS Road Weather Forecast is part of RoadDSS Software Suite, which means you receive both your current RWIS information within the same user interface as your road condition forecasts. Combining both provides quick, easy access, and allows for integrated features, such as current and predicted values in a single graph. This means you can

quickly determine how well a forecast is performing, and whether any short-term adjustments are needed.

If you have received Vaisala Thermal Mapping, this service is also integrated into your forecast modeling. Thermal mapping integration provides nocturnal surface temperature forecasts over your entire network. This feature is critical in regions where marginal temperatures and slight variations can mean the difference between a wet road or an icy road.

Reliable Decisions

At the heart of the road surface forecast is the model used to predict road conditions. Vaisala incorporates a cutting-edge proprietary pavement model called IceBreak to generate road surface forecasts. A key to a pavement model accuracy is the years of operation. Just like a person on the job, a model is tweaked and improved over the years to ensure it remains the industry leading model and provides you key decision information.

Flexible Sources

What if you already have a weather forecast provider and you are happy with the service? Maybe they are local, know your operations, or cater to your agency's needs. No Problem. The RoadDSS Road Weather Forecast can work with your current provider, ingesting their atmospheric weather forecast, while also providing you even more information through the Vaisala RoadDSS forecast. If you do not already have a preferred forecast provider, Vaisala works with leading services around the globe to ensure you receive the best possible prediction.



Benefits

- Be able to make confident decisions about weather
- Tool to help choose road maintenance action
- Less stress during decision making times
- Save money through better use of resources
- Keep roadways as safe as possible
- Less impact on the environment

Technical Data

Roadway Forecast Parameters Available

Pavement Surface Temperature
Pavement Surface State
Pavement Sub-Surface Temperature
Pavement Grip Estimate
Base (Sub-Surface) Temperature

Atmospheric Forecast Parameters Available

Air Temperature
Dew Point Temperature
Cloud Cover
Wind Speed
Wind Direction
Precipitation

Optional Forecast Consultancy Services (Not available in all regions)

24/7 access to a certified meteorologist, year-round
Service targeted to your applications with access to meteorologists that understand your operations
Tailored to client operations and impacts
Targeted daily textual forecast products
Proactive notifications of impending storms and weather impacts to customer operations
Dedicated daily weather conference call for your staff

Other Information

Standard forecast length is 72 hours
High frequency forecast updates – hourly and 3-hourly options available
Optional graphical atmospheric forecast outlook products - 24-hour forecast and 5-day outlook are available



Road Weather Forecast appears within RoadDSS Software Suite

VAISALA

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