Weather Risk Management Solutions

Mitigate Weather Impacts with Meteorological Forecasting Support

Weather events, in particular, severe or extreme weather events can cause disruptions and financial losses to business operations, not to mention safety concerns for their employees, and to the public.

RWDI’s meteorologists and engineers understand weather. We can work closely with you during planning and design stages allowing you to predict short and long-range conditions, and take action to minimize impacts on your operations before they occur.

The Benefits of Weather Forecasting:

• identify areas of your operation that are susceptible to weather and suggest proactive mitigation strategies
• provide regular and/or custom forecasts to minimize operational delays while increasing safety and efficiency
• provide in-person support from a professional meteorologist you know, who is invested in the success of your operation

Critical lead-time is provided for:

• asset managers
• emergency responders
• construction site managers
• operations managers

MITIGATE IMPACTS WITH FORECASTING SUPPORT:

• Construction Warnings (High Wind Gusts, Lightning)
• Emergency Planning Measures
• Flood Warning and Alerts
• Helicopter Operations (Heliski, Search & Rescue, Mining)
• Major Motion Picture Logistics and Operations
• Manage Dust from Mining Operations
• Open and Control Burn Operations
• Road Condition Alerts (Avalanche, Snow & Ice, Flooding, Mudslide)
• Snow Accretion / Shedding of Bridge Cable Stays
• Snow Making & Safety Operations (Avalanche Control)
• Special Events (Festivals, World Cup Ski Races, etc.)
• Training Courses
RWDI’S APPROACH

We leverage information from a number of sources including weather model outputs from Environment Canada, and the U.S. National Center of Environmental Prediction; satellite, radar and ground-based observations; and, our own high resolution numerical simulations. As a result, RWDI is able to offer a customized blend of automated and human forecasts:

- **Automated forecasts** are derived from weather model outputs and produced in graphical or tabular format; updated several times a day, and are typically less expensive than human / manual forecasts.
- **Manual or human forecasts** are more customizable and tend to focus on the ‘problem of the day’. A highly trained and experienced meteorologist will interpret complex weather information and can provide immediate feedback.

RWDI Services

- Noise and Vibration
- Environmental Impact Assessments
- Ambient Monitoring, Stack Testing
- Ventilation & Control Systems
- Environmental Geoscience
- Hydrogeology Water Resources
- Waste Management
- Environmental Software
- Regional Atmospheric Modelling/Meteorology
- Real-Time Modelling
- Visualization of Air Quality, Meteorology or Weather Forecast Data
- Greenhouse Gases

SAMPLE APPLICATIONS

Avalanche Control and Search and Rescue (SAR) staff benefit from day-to-day decisions now made possible by a self-briefing interface that contains customized automated forecast products. Live feedback from our professional meteorologists is used on an ad hoc basis to assist with timing and locating road closures and SAR missions.

Helicopter Operations dependent upon sorties in complex terrain (e.g., filming for movie productions) take advantage of web briefings to optimize preparation and flying times, avoiding unnecessary risks or delays.

Governmental and Commercial Clients receive minute-by-minute, 24-7 updates, in person, during flooding events and other high impact weather to allocate resources, protect equipment and life.

The Mining and Oil/Gas Industries uses RWDI forecasts to assess their vulnerability to weather impacts during construction and operations, helping minimize delays, mitigate cost overruns and ensure workers’ safety.

Event Organizers use our briefing services to plan and warn operators and television crews about upcoming weather threats such as high wind gusts and lightning.

Winter Resort Operators require frequent, accurate weather forecasts to proactively manage snow safety operations, snow making and grooming, etc.; also posting them on their websites for public information.

Logging Operations receive automated and manual smoke dispersion forecasts that they use to plan open burning activities to minimize impacts to nearby populations and abide by governmental regulations.

Air, Noise, Water & Waste Services

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