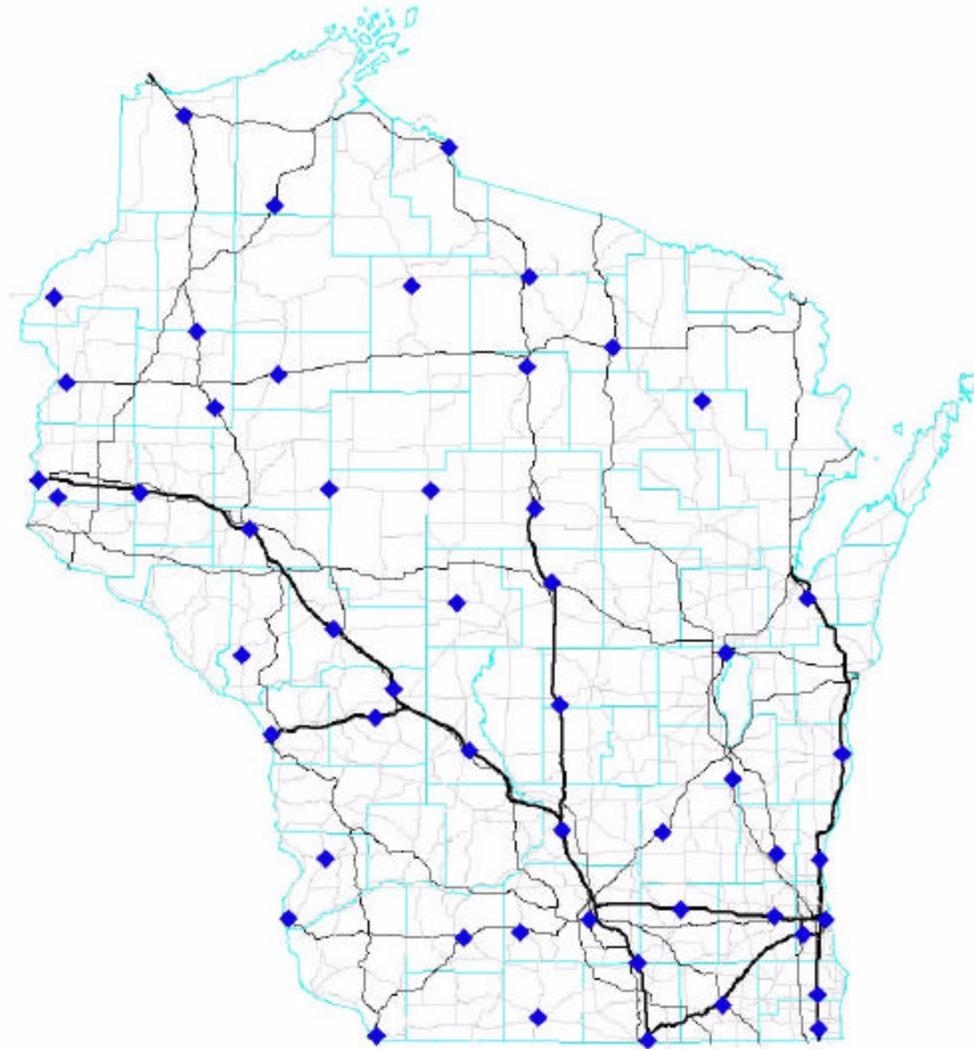


THE WISCONSIN ROAD WEATHER INFORMATION SYSTEM (RWIS)

Mike Adams

WisDOT RWIS Program Manager

THE WISCONSIN RWIS NETWORK





ROAD MAINTENANCE IN WISCONSIN

- DOT doesn't actually perform maintenance
- Contracts with each county to maintain state and federal highways



WEATHER FORECAST SERVICES

- Key issues addressed in forecast contract
 - Timeliness (2:30 AM, 2:00 PM)
 - Lead time (4 hours before snow starts)
 - Keyed to specific criteria
 - Snow amount \geq 2 inches
 - Freezing precipitation
 - Pavement temperature \leq 32°F
 - Frost
 - Satellite delivery via DTN



WEATHER FORECAST SERVICES

- Toll-free access to forecaster
- Pavement temperature forecast for all 52 sensor sites
- Storm warning services



WEATHER FORECAST SERVICES

- Important in proactive anti-icing operations
- Advance warning, timing error are critical
 - Need to know well before storm hits
 - Need to know exactly when precipitation will start
 - Need to know likelihood of frost



CHALLENGES

- Lack of infrastructure through which to transmit and share information
- Data dissemination to 72 counties
- Forecast accuracy
- System maintenance
- Proprietary products and services
- Integration with other weather data sources
- What information to provide to public...
- ...And how to provide it

