

The Advanced Transportation Weather Information System

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Regional Weather Information Center

University of North Dakota

Grand Forks, North Dakota

The Goal of ATWIS

To evaluate & demonstrate the effectiveness of mesoscale meteorological analysis and forecasting in providing safer and more efficient operations in an ATIS.

**Precise spatial and temporal weather information
In-vehicle information distribution**

R & D Began	17 July 1995	
Operations Began	30 Oct. 1996	2400 Road miles
	1 Nov. 1997	3700 Road miles
	1 Nov. 1998	4800 Road miles
	14 Feb. 1999	7200 Road miles

Decision Support System

Decision Support System Development

Cross Discipline Integration

MM5 □ AWOS/ASOS □ RWIS

GOES □ NEXRAD □ LAPS

NWS Suite of Models

Efficiency - integrates information



Current Delivery Technology

Wireless Communication

Mass test population

Automate Telephony

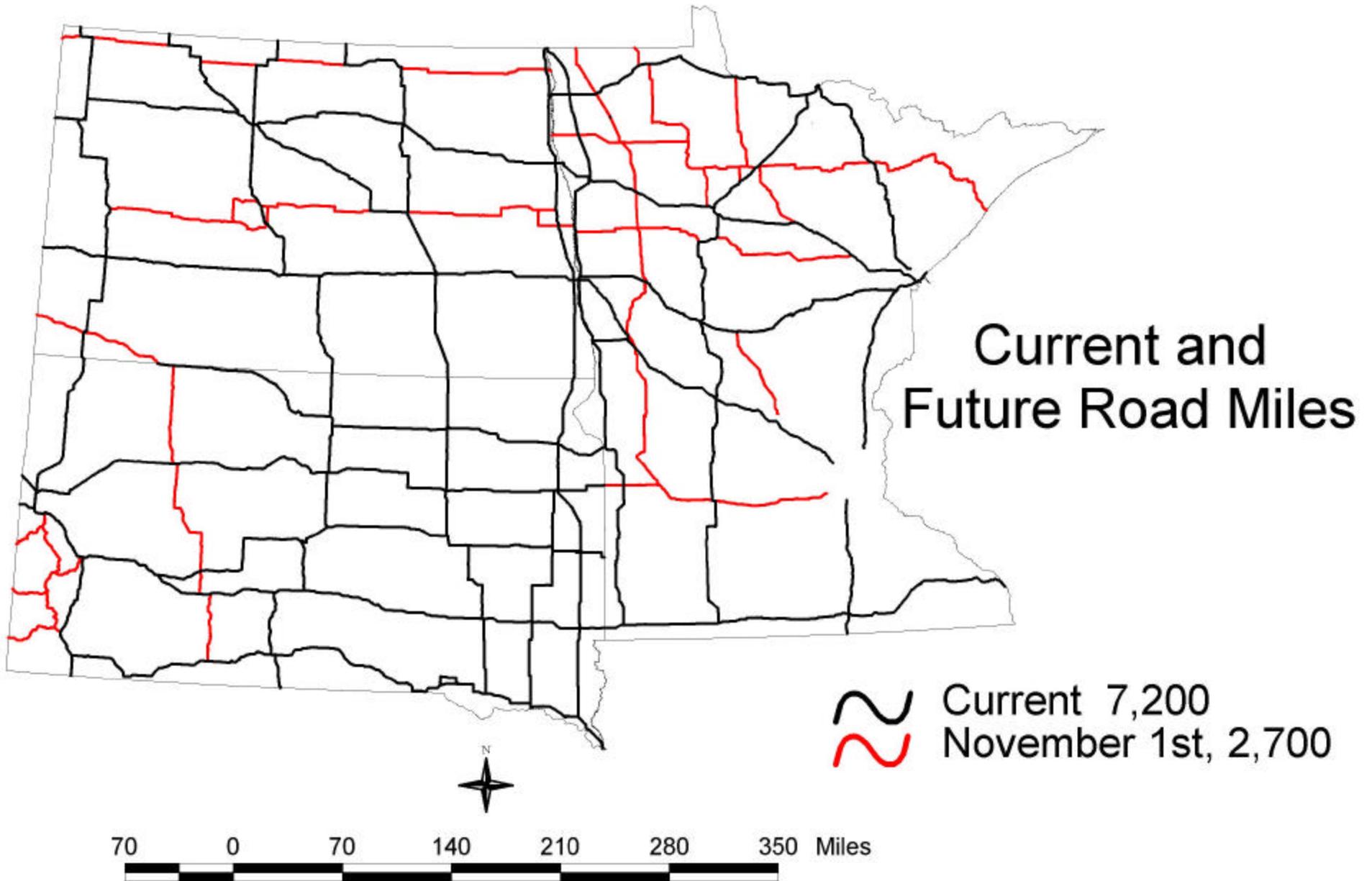
Every Cellular Company

Started with 4 Expanded to 13

New Cellular Companies

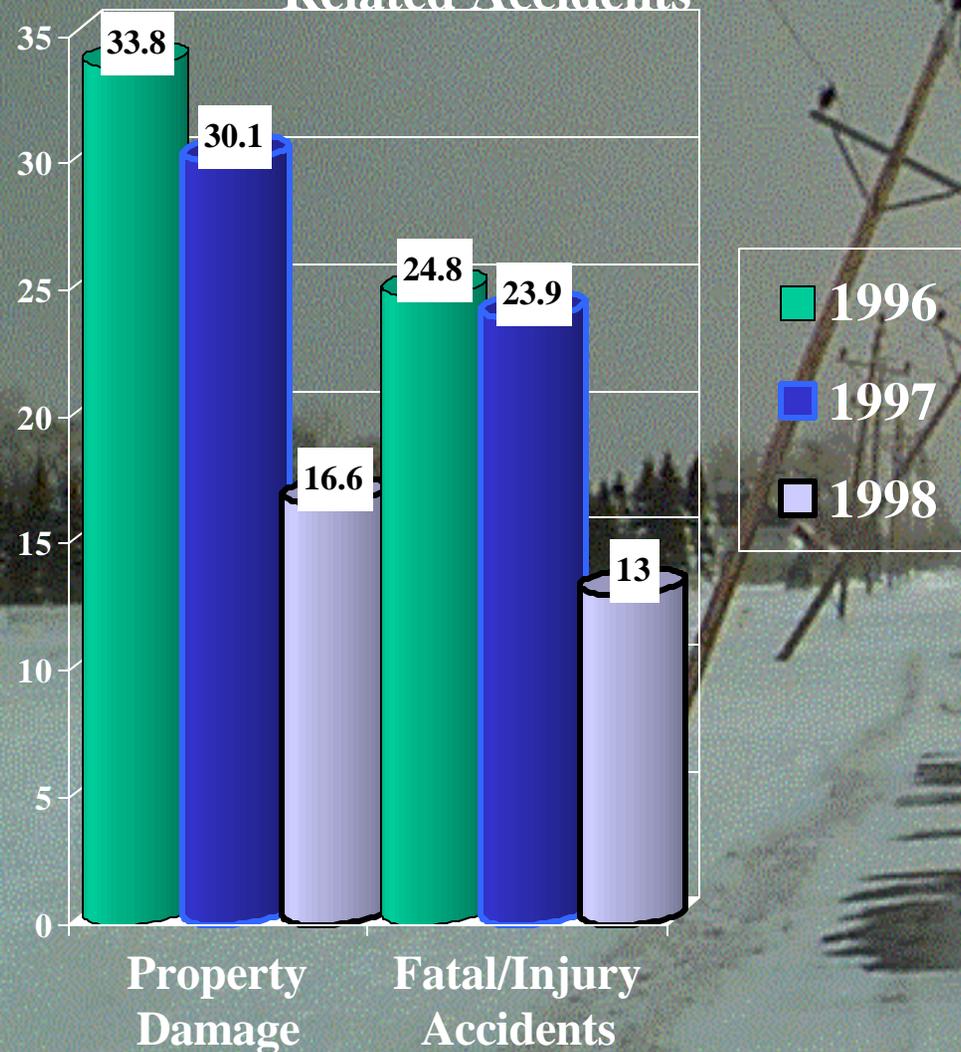
Advances in Wireless Communication

#SAFE 1999-2000 Winter Driving Season

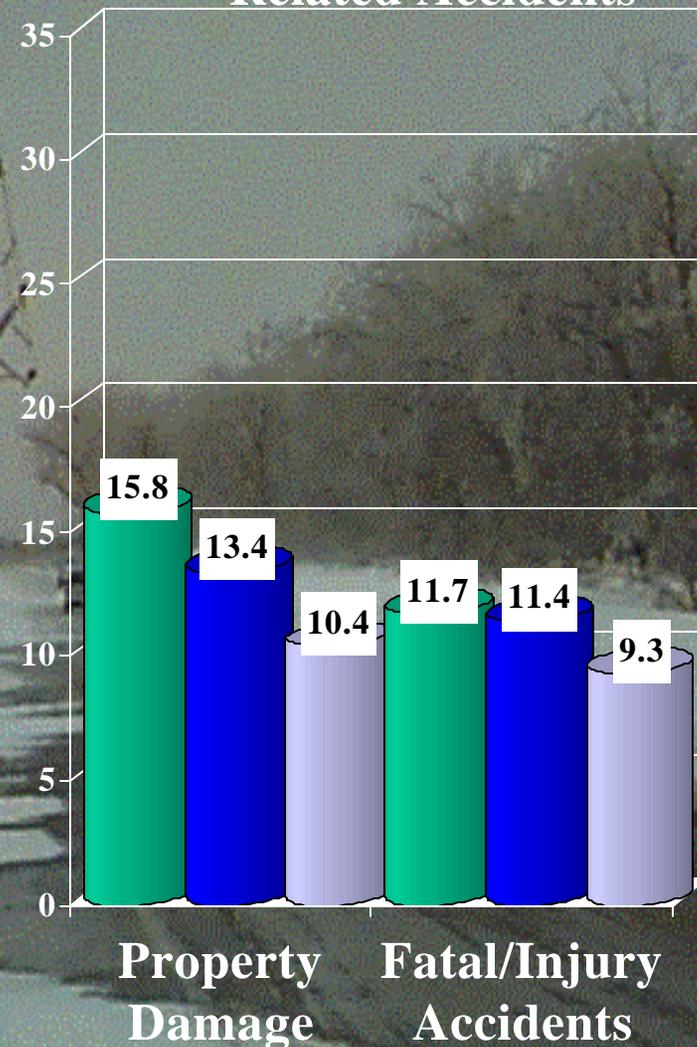


Percent of Weather Related Fatal/Injury Accidents and Property Damaged Value

South Dakota Weather Related Accidents



North Dakota Weather Related Accidents



Traveler Comment Line

Local User Approx. 6.4 Million
Most Travelers are Multiple Users
Known Out of State Users Include

AL, ID, NE, CA, TX, CT, WI, WA, OR, MT, ON, AB, MB

5:33 PM Friday 8/27/99

This is Barbara, we live in Portland OR. We are traveling, we brought our daughter to Sioux Falls to go to college and we were so thankful for this weather service, because we were caught in, we got into a really bad thunder storm on the night of the 29th and we were able to project how we could travel or whether we should go on, so thank you very much, we appreciate and are so grateful for it so thank you.

For More Information
Contact

A stylized sun logo with a dark blue circular center and numerous yellow, pointed rays radiating outwards. The sun is positioned behind the main title text.

REGIONAL WEATHER
Information Center

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UND AEROSPACE

<http://www.rwic.und.edu>