

# Pavement Preservation *is applied* Asset Management



PAVEMENT PRESERVATION & RECYCLING SUMMIT  
**PPRS** PARIS 2015  
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Jerry Geib  
MnDOT, USA





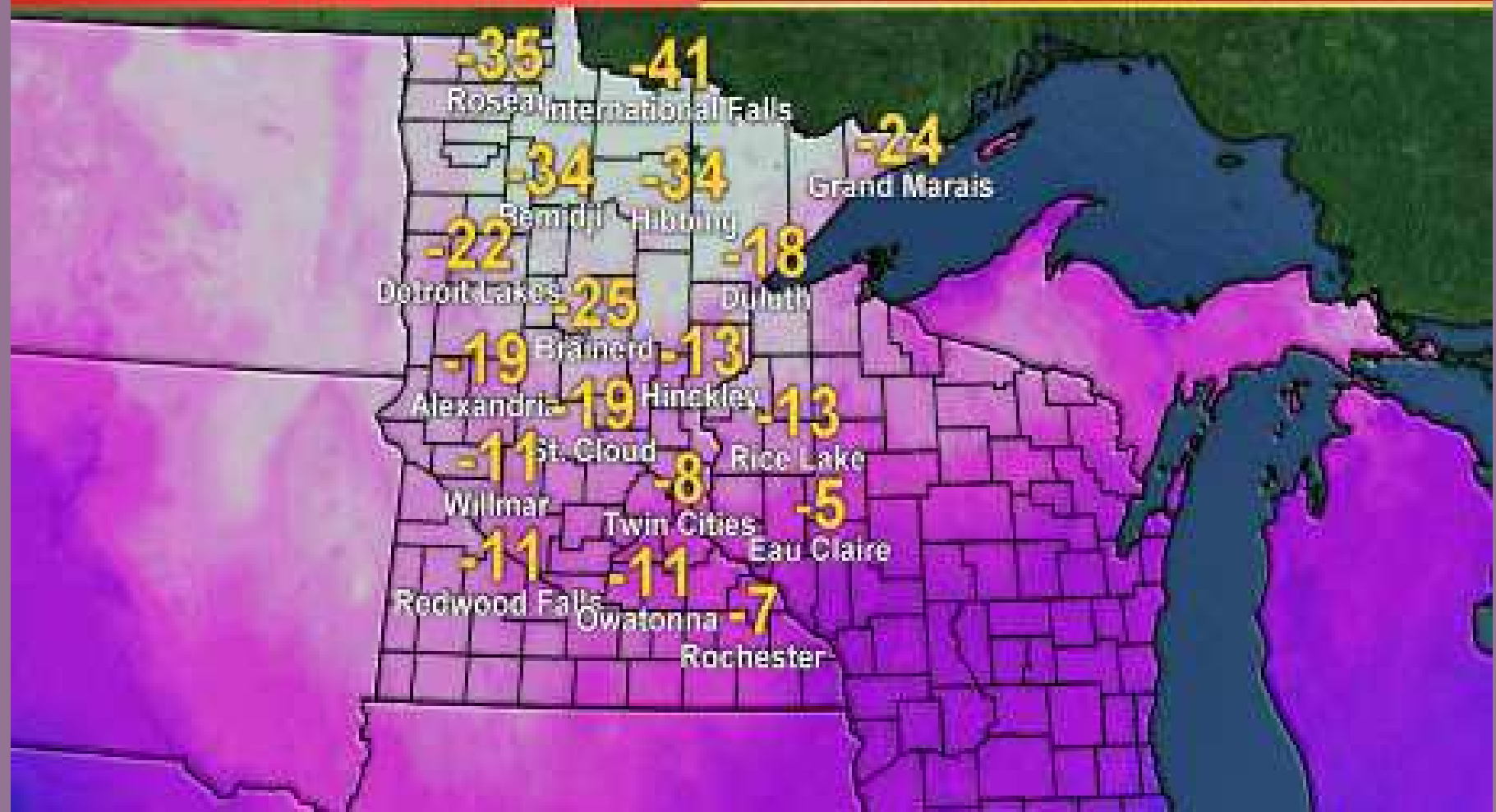
# Outline

- › **Minnesota Data**
- › **MnDOT Assets - Pavements**
- › **Treatment Best Practices**

MINNESOTA, USA | 1  
INFORMATION



## TEMPERATURES NOW







PAVEMENT ASSET  
INFORMATION | 2





## **MINNESOTA**

**12<sup>th</sup> is total area 86,935 sq. mi.**

**21<sup>st</sup> in population 5,420,000**

**5<sup>th</sup> in the USA, in lane miles 285,180**

**MnDOT owns 29,300 lane miles**



**The 29,300 lane mile  
state highway system  
is 74% of State-owned  
capitol assets.**



ASSET CLASS	REPLACEMENT COST
Pavements	\$29.5 B
Bridges	\$6.6B
Highway Culverts	\$1.7B
Deep Stormwater Tunnels	\$300M
Overhead Sign Structures	\$200M
High-Mast Light Tower Structures	\$19M



**MnDOT new Asset  
Management web page is at  
[www.dot.state.mn.us/  
assetmanagement/index.html](http://www.dot.state.mn.us/assetmanagement/index.html)**

PAVEMENT PRESERVATION | 3  
BEST PRACTICES



- **Hot Mix Asphalt**  
**Use the Infrared Bar**  
**Polymer modified AC**  
**Uniform Tack Coat**  
**Nova-Chip**





- **Chip Seal**  
**CRS-2P emulsion**  
**Design application rates**  
**Fog Seal with CSS-1h**





- **Micro Surfacing**  
**Night time test strip**  
**Softer base asphalt**  
**SBS polymer**

# CONCLUSION

- › **MN is Very Cold**
- › **Pavements \$29.5B**
- › **Pavement Preservation**
  - › **Right treatment, right road, right time**



**QUESTIONS?**

**JERRY GEIB**

**[jerry.geib@state.mn.us](mailto:jerry.geib@state.mn.us)**