

How Minnesota is Innovating 511 Next-Gen Enhancements to Traveler Information

2015 National Rural ITS Conference

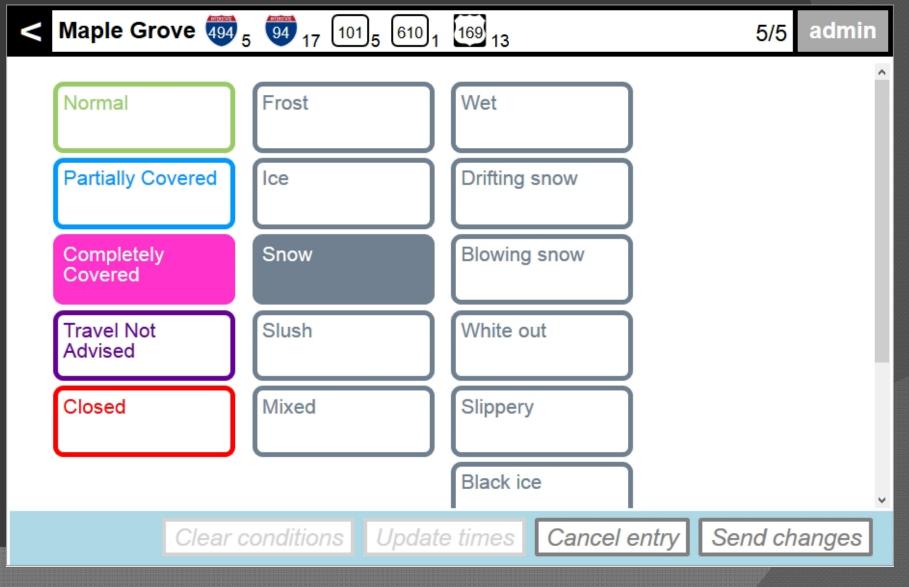
Increasing accuracy, reliability, and identifying outdated reports

Welcome, CARS Administrator! [Administer Users] [Sign Out] Winter Road Reporting									
Sele	ected Segments	Refresh Page Select All							
	Name/ID	Location		Conditions Update Time					
	Route: MN 95								
	#13-TP3SC0951	MN 95, between MN 23 (near Saint Cloud) and US 169 (near Princeton)	No conditions reported.						
	#3-TP3SC0952	MN 95, between Mille Lacs County Road 31 - County Road 102 (near Princeton) and Isanti County Road 2 (near Cambrid	No conditions reported.						
	#4-TP3SC0953	MN 95, between MN 65 (near Cambridge) and Chisago County Road 13 (near North Branch)	No conditions reported.						
	TP9A95S1	MN 95, between Isanti County Road 48 and Chisago County Road 69 (near North Branch)	No conditions reported.						
	TP9A95S1	MN 95, between Chisago County Road 14 (near North Branch) and US 8 (Taylors Falls)	BL Change and a start of the st						
	TP9B0952	MN 95, between US 8 (near Taylors Falls) and Washington County Road 51 (1 mile east of the Marine on Saint Croix a							
	TP9K0951	MN 95, between Washington County Road 59 (1 mile east of the Marine on Saint Croix area) and MN 36 (Stillwater)	An a						
	TP9K0951	MN 95, between MN 36 (Oak Park Heights) and MN 895A (Lakeland)	Grand Forks						
	TP9N0951	MN 95, between I-94 (Woodbury) and US 61 (Cottage Grove)							
Chan	nge Conditions:	None - Normal Partially Covered Completely Covered Travel Not Advised Closed - None - ▼ Reset Apply Changes Conditions Unchanged	Farge	Duluti Nini un olis Roch unter					

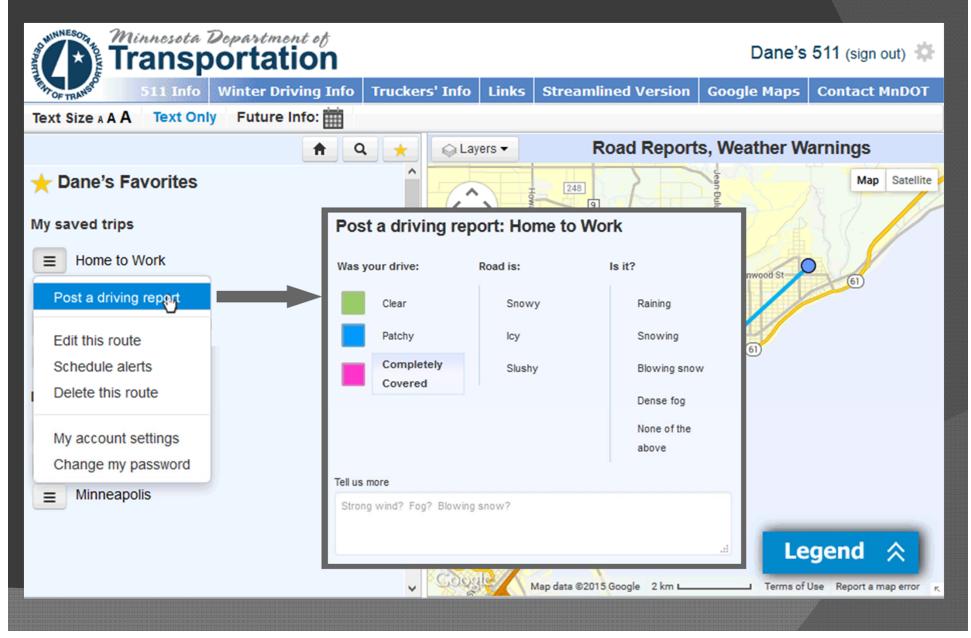
winter reporting tools: Mobile App for real-time field reporting

₽	Maple Grove 0/5 admin									
Su	Summary Segments		Conditions Updated Show		State Map					
94		Partially Covered Slush Blowing snow	Partially Covered Slush Blowing snow	Partially Covered Slush Blowing snow	Completely Cov S Com lce					
494		5 TP5B4941	6 TP9K4941	7 TP9M4941						
169		13 TP5B1691	1 #2-TP3SC1691	(5) #3-TP3SC1692	16 #4-TP3SC1693 17 #21-T					
101		5 TP5B1011								
610		1 TP5B6101	2 TP5F6101							

back-end performance/processor updates + color coded visual cues



public reporting: winter conditions



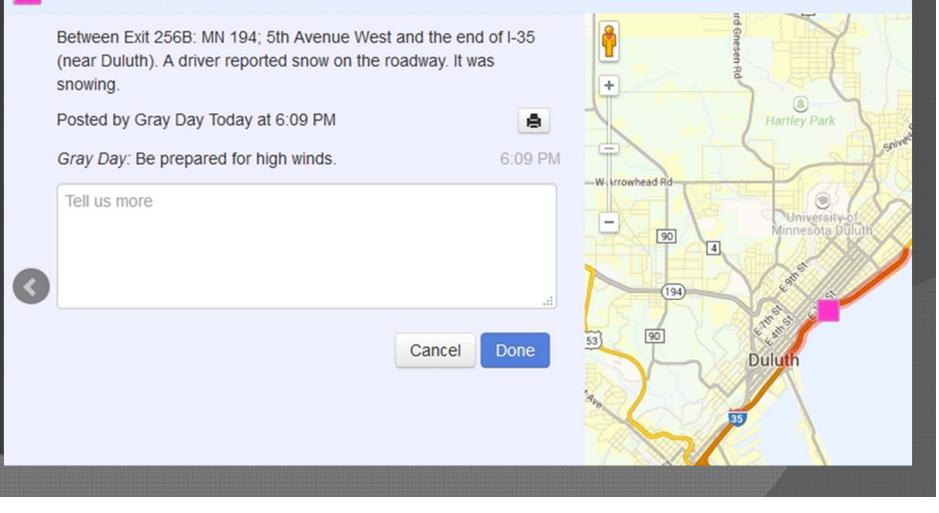
Side by side verification



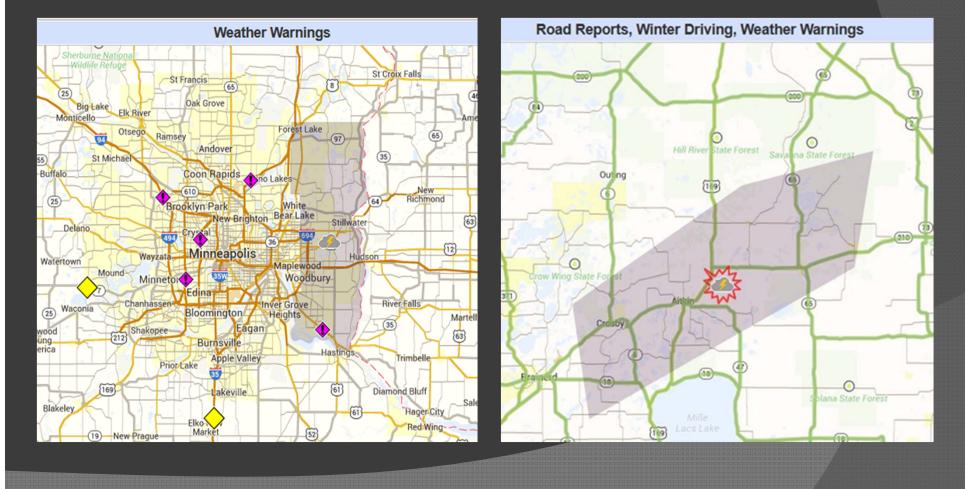
DOT: road is "partially covered" Citizen: road is "completely covered"

open comments & feedback on citizen reports

--- Citizen Report --- I-35: Snow.



National Weather Service (NWS): automated alerts by area - county or zone



mapped to roadway sections for 511

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anopulation

MN 6: Tornado Warning.

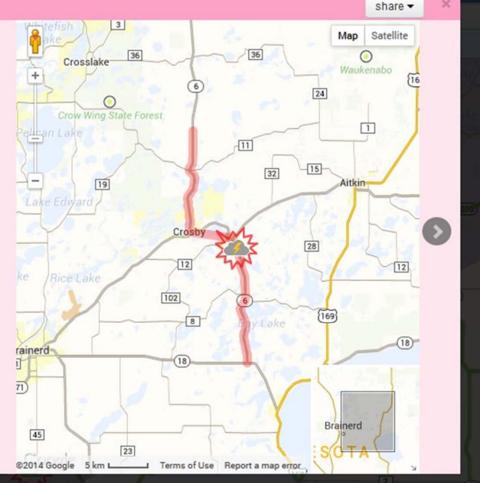
Between MN 18 (6 miles south of the Deerwood area) and Crow Wing County Road 36 (3 miles north of the Cuyuna area). A Tornado Warning is in effect. Until November 16.

Comment: Tornado Warning issued October 20 at 8:00AM PST expiring November 15 at 12:00AM PST by NWS Minneapolis

TORNADO WARNING NOW IN EFFECT... THE ADVISORY IS NOW IN EFFECT FOR THE COUNTIES MENTIONED. * VISIBILITY: CONTINUES TO BE BELOW A QUARTER OF A MILE IN MANY AREAS...BUT WAS BEGINNING TO SLOWLY IMPROVE.

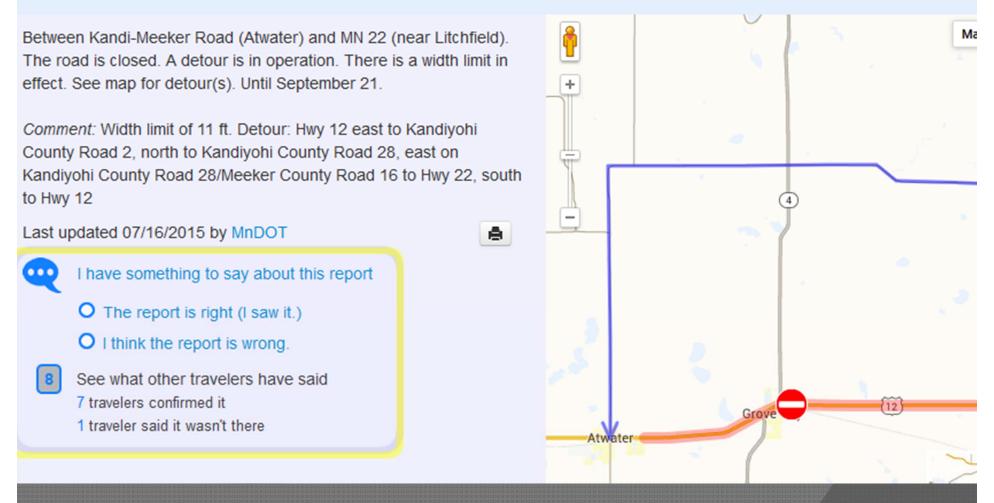
Full NWS alert

Last updated Today at 4:57 PM by NWS

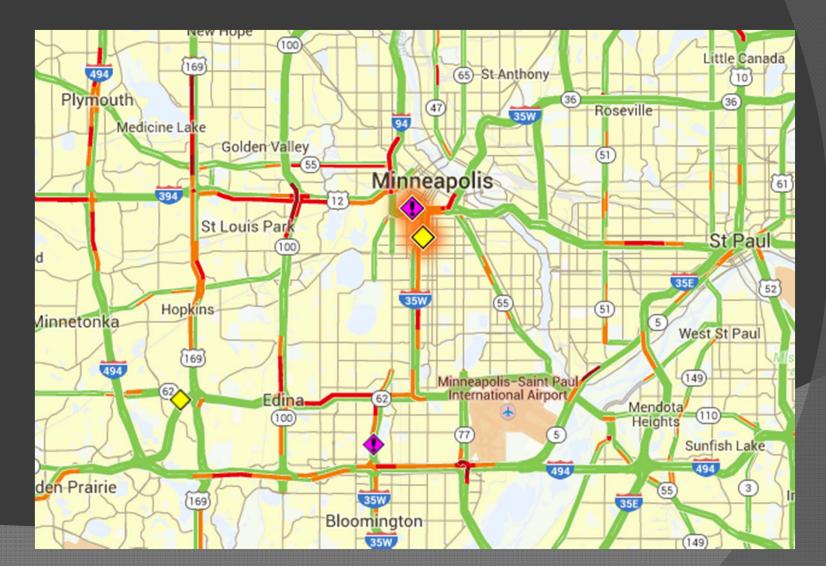


What do travelers have to say?: verifying accuracy and urgency

US 12: Road closed.



Visual map cues and dynamic priority updates for high-impact events



delay time verification via Google-based Travel Times queries

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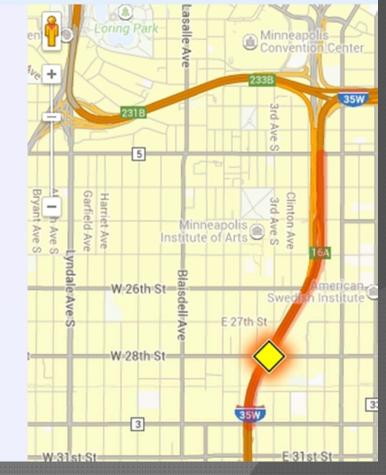
CURRENT DELAYS ON I-35W southbound: Left lane closed.

Google shows a 5 minute delay northbound, and a 7 minute delay southbound. Between Exit 16A: I-94 and Exit 15: Lake Street (near Minneapolis). The left lane is closed.

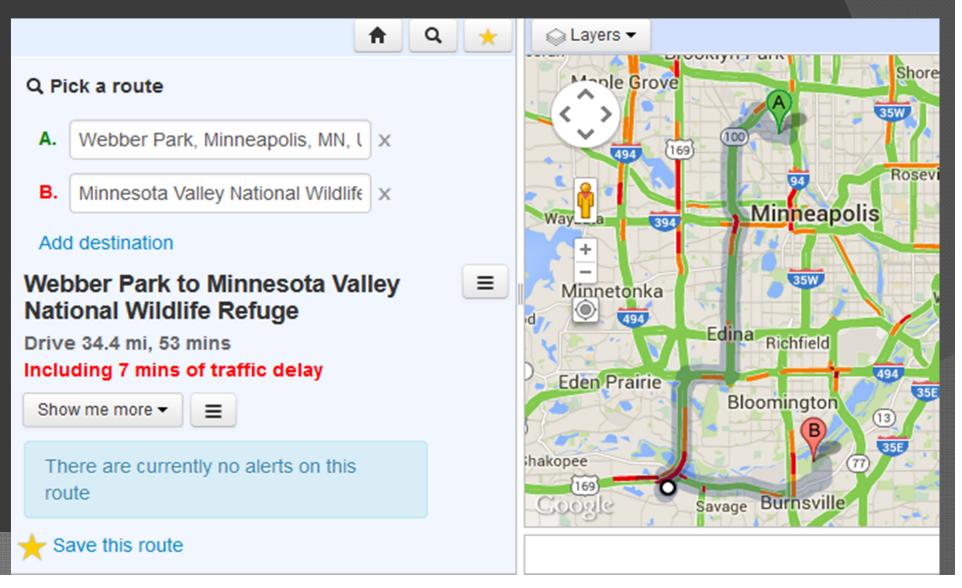
Last updated Today at 6:01 PM by MnDOT



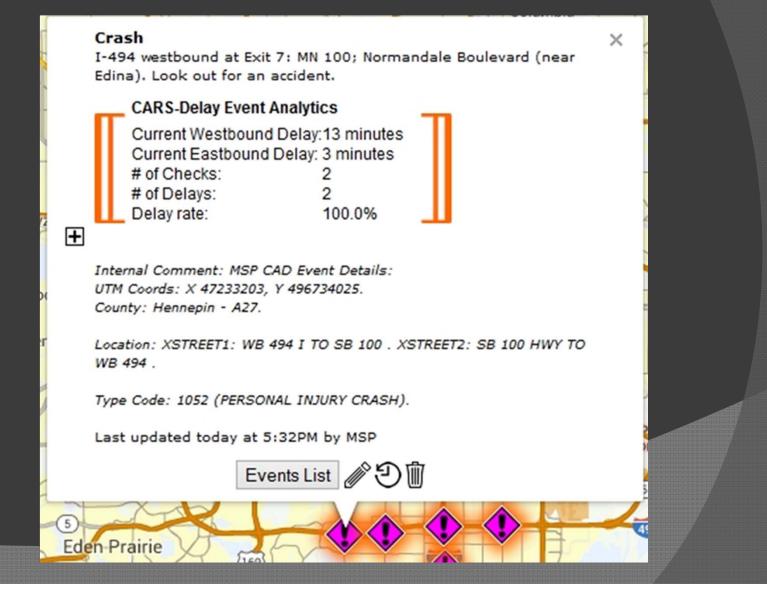
I have something to say about this report



Drive time for a route: "53 mins, including 7 mins of traffic delay"



Logged internal analytics for reported delays



Thank you!

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