

INTERSECTION WARNING SYSTEMS IN MINNESOTA



Your Destination...Our Priority



















Minnesota ITS Safety Plan

ITS Critical Strategy 5:

Use Intersection Collision Warning Systems

http://www.dot.state.mn.us/guidestar/2006 2010/its_safety_plan.html





















Deployment Strategies for Minnesota

- Dynamic Intersection Warning is included in Minnesota's ITS Safety Plan and SHSP.
- Eligible for federal HSIP funding.
- It is anticipated Minnesota Safety plans will identify 160 to 180 intersections where dynamic intersection warning systems may be installed.



















Intersection Warning Systems

Major Roadway Warning Systems

Vehicle Crossing / Entering Mainline Speed Warning (none in Minnesota)

Minor Roadway Warning Systems

Mainline Vehicle Approaching Cross Street Cross-street Stop Sign Warning Systems Cross-street Gap Assistance Systems











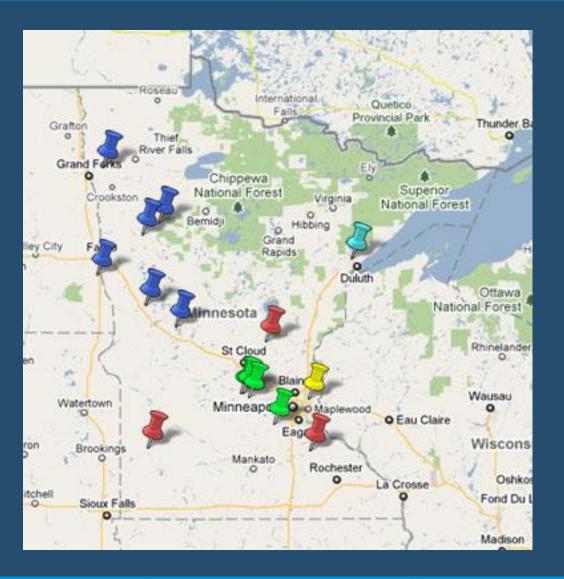








Intersection Warning Systems in Minnesota





















Major Roadway Warning Vehicle Entering or Crossing



TH 169 @ Mille Lacs CSAH 11

(This system has been removed and a CICAS system installed)



















Minor Roadway Warning Vehicle Approaching Intersection

Hennepin County Road 47 @ Lawndale Lane

http://www.dot.state.mn.us/guidestar/2006_2010/intersection_warning_system/Final%20Documentation.pdf





















Minor Roadway Warning Cross Street STOP Sign Warning



Washington County
CSAH 15 (Manning Ave) @
CR 47 (McKusick Road)







































Minor Roadway Warning Gap Assistance System

US 52 @ CSAH 9 – Goodhue County – January 2010 US 169 @ CSAH 11 – Milaca, MN - Spring 2011 MN 23 @ CSAH 7 – Lyon County – Spring 2011

http://www.dot.state.mn.us/guidestar/2006 2010/cicas.html









































Major Roadway and Minor Roadway Warning

St. Louis County

 Co Rd 2 (West Tischer Road) @ Co Rd 246 (West Eagle Lake Road) [De-energized]

Wright County

- CSAH 5 @ CSAH 35
- CSAH 6 @ CSAH 35
- CSAH 9 @ CR 107

Scott County

• CSAH 42 @ CSAH 17











































Safe Intersection Project - COTS

District 4

- TH 200 @ Mahnomen CSAH 4
- TH 113 @ TH 59
- TH 29 @ Douglas CSAH 5
- TH 75 @ Clay CSAH 2
- TH 210 @ Ottertail CSAH 35

District 2

TH 75 @ Polk CSAH 21





















Challenges

- Establish the safety impact
- Continue development of intersection warning systems
- Establish warrants for proper applications
- Implement MUTCD standards and guidelines
- Educate and inform drivers
- Focus enforcement efforts



















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