

Rural Intersection Conflict Warning System (RICWS) Reliability Evaluation

This reliability evaluation project was a result of the Minnesota Department of Transportation (MnDOT) developing a RICWS deployment project to reduce crashes at rural stop-controlled intersections. The RICWS project will deploy up to 50 of these systems within the state.

The first RICWS site, TH 7 and Carver CSAH 33, needed to be evaluated for a minimum period of 30 days to demonstrate the reliability of the system. The University of Minnesota was selected to perform this evaluation.

Reliability Summary

The University of Minnesota installed a portable Intersection Surveillance System (ISS) and collected data from the RICWS as well as from the ISS. The data collected from the RICWS was validated against data recorded by the ISS in order to determine the accuracy and reliability of the RICWS.

Results

The RICWS was determined to have an activation rate of 99.98%, and meets the MnDOT specification of 99.95% sign activation rate. Sign activations were also validated using video captured at the site and a sample of times for valid activations and valid periods when the sign was inactive were recorded.



RICWS: T.H. 7 & Carver CSAH 33

For More Information

Contact: Daniel Rowe, Project Manager, 651-234-7059, daniel.rowe@state.mn.us