Abstract

In 2012, there were 30,800 fatal crashes in the US. Rural intersections accounted for approximately 36% of these crashes. A new system designed to reduce the number of fatalities is the Intersection Conflict Warning System. This system is an advance warning system that places traffic control devices along the minor and major roads of an intersection to warn drivers of what is ahead.

Background

The main goals of this project include:

• Evaluating driver behavior before and after the ICWS is implemented
• Collecting data after the system has been in place for a longer period of time
• Testing the traffic volume limits with the system in place

Discussion

This research project is still in progress with collecting data to determine if the ICWS makes two way stop controlled rural intersections safer. In the future, video data from before and after the installation of ICWS will be analyzed to determine if the advanced warning system affects the number of crashes, the severity of the crashes at the intersection, and the gaps drivers choose to accept. Based on what I have seen so far, the ICWS causes drivers to stop for longer, reject more gaps in traffic, and accept larger gaps.

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