



CMF / CRF Details

CMF ID: 8473

Install an intersection conflict warning system (ICWS) with post mounted signs (various messages) and flashers at the intersection on minor; loop on major

Description: Install an intersection conflict warning system (ICWS) with post mounted signs (various messages) and flashers at the intersection on minor; loop on major

Prior Condition: No intersection conflict warning systems

Category: Signs

Study: [Multi-State Safety Evaluation of Intersection Conflict Warning Systems \(ICWS\)](#), Himes et al, 2016

Star Quality Rating:



[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 0.763

Adjusted Standard Error:

Unadjusted Standard Error: 0.173

Crash Reduction Factor (CRF)

Value:	23.7 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	17.3

Applicability

Crash Type:	Angle
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	2 to 4
Road Division Type:	
Speed Limit:	
Area Type:	Rural
Traffic Volume:	
Time of Day:	Not specified

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	4-leg
Traffic Control:	Stop-controlled
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details

Date Range of Data Used:	
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Municipality:	
State:	MN, MO, NC
Country:	
Type of Methodology Used:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jan-17-2017
Comments:	CMF for 4-lane at 2-lane intersections

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