



CMF / CRF Details

CMF ID: 8456

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

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

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:	
<input type="text" value="4 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.74
Adjusted Standard Error:	
Unadjusted Standard Error:	0.07

Crash Reduction Factor (CRF)	
Value:	26 (This value indicates a decrease in crashes)
Adjusted Standard Error:	

Unadjusted Standard Error:

7

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

2

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:

Municipality:

State:

MN, MO, NC

Country:	
Type of Methodology Used:	2
Sample Size Used:	

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

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