



# CMF / CRF Details

CMF ID: 8446

**Install intersection conflict warning systems (ICWS) for four-lane at two-lane intersections**

**Description:**

**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:	
8 Stars	<a href="#">[View score details]</a>

Crash Modification Factor (CMF)	
Value:	0.64
Adjusted Standard Error:	
Unadjusted Standard Error:	0.23

Crash Reduction Factor (CRF)	
Value:	36 (This value indicates a <b>decrease</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	23

## Applicability

**Crash Type:** Angle

**Crash Severity:** All

**Roadway Types:** Not specified

**Number of Lanes:** 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:**

**Municipality:**

**State:** MN

**Country:**

**Type of Methodology Used:** 2

<b>Sample Size Used:</b>	
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<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jan-17-2017
<b>Comments:</b>	Authors indicated that this CMF is based on small sample size and should be interpreted with caution.

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