



## CMF / CRF Details

**CMF ID: 8434**

**Install intersection conflict warning systems (ICWS) for two-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:**



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

### Crash Modification Factor (CMF)

**Value:** 1.95

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.62

### Crash Reduction Factor (CRF)

**Value:** -95 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

62

### Applicability

**Crash Type:**

Angle

**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

<b>Country:</b>	
<b>Type of Methodology Used:</b>	Before/after using empirical Bayes or full Bayes
<b>Sample Size Used:</b>	

<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.

---

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

*The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.*