



# 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:

3 Stars

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

## 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

**Country:**

**Type of Methodology Used:** 2

|                          |  |
|--------------------------|--|
| <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. |

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