



## CMF / CRF Details

**CMF ID: 4704**

**Convert high-speed rural intersection (3 leg) to roundabout**

**Description: Convert a high speed rural 3 leg intersection to a roundabout**

**Prior Condition: 3 leg intersection**

**Category: Intersection geometry**

**Study: [A Statistical Analysis and Development of a Crash Prediction Model for Roundabouts on High-Speed Rural Roadways, Isebrands, 2012](#)**

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 0.28

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Crash Reduction Factor (CRF)

**Value:** 72 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

All

**Crash Severity:**

A (serious injury),B (minor injury),C (possible injury)

**Roadway Types:**

Not specified

**Number of Lanes:**

1

**Road Division Type:**

**Speed Limit:**

45-65 mph

**Area Type:**

Rural

**Traffic Volume:**

**Time of Day:**

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

3-leg

**Traffic Control:**

Roundabout

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

### Development Details

**Date Range of Data Used:**

**Municipality:**

**State:**

KS, OR

<b>Country:</b>	
<b>Type of Methodology Used:</b>	2
<b>Sample Size Used:</b>	Site-years
<b>Before Sample Size Used:</b>	10 Site-years
<b>After Sample Size Used:</b>	10 Site-years

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	May-01-2013
<b>Comments:</b>	

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