



# CMF / CRF Details

CMF ID: 242

Convert all-way, stop-controlled intersection to roundabout

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [NCHRP Report 572: Applying Roundabouts in the United States, Rodegerdts et al., 2007](#)

Star Quality Rating:

## Crash Modification Factor (CMF)

Value: 1.03

Adjusted Standard Error: 0.18

Unadjusted Standard Error: 0.15

## Crash Reduction Factor (CRF)

Value: -3 (This value indicates an **increase** in crashes)

Adjusted Standard Error: 18

Unadjusted Standard Error: 15

## Applicability

**Crash Type:**

All

**Crash Severity:**

All

**Roadway Types:**

Not Specified

**Number of Lanes:**

1 or 2

**Road Division Type:**

**Speed Limit:**

**Area Type:**

All

**Traffic Volume:**

**Time of Day:**

*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:**

**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>	Yes. HSM lists this CMF in italics font to indicate that it has a lower reliability than bold font CMFs since it has an adjusted standard error of 0.2 to 0.3.
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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