



# CMF / CRF Details

**CMF ID: 10092**

**Conversion of intersection to roundabout**

**Description: Conversion of stop- and signal-controlled intersections into roundabouts**

**Prior Condition: Intersections without roundabouts**

**Category: Intersection geometry**

**Study: [Safety Evaluation of Roundabouts in Georgia, Gbologah et al., 2019](#)**

<b>Star Quality Rating:</b>	
<input type="text" value="3 Stars"/>	<a href="#">[View score details]</a>

<b>Crash Modification Factor (CMF)</b>	
<b>Value:</b>	0.405
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

<b>Crash Reduction Factor (CRF)</b>	
<b>Value:</b>	59.5 (This value indicates a <b>decrease</b> in crashes)
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

## Applicability

**Crash Type:**

All

**Crash Severity:**

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

**Roadway Types:**

Not specified

**Number of Lanes:**

**Road Division Type:**

Undivided

**Speed Limit:**

**Area Type:**

All

**Traffic Volume:**

**Time of Day:**

All

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

4-leg

**Traffic Control:**

Not specified

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

2007 to 2014

**Municipality:**

**State:**

GA

**Country:**

United States

**Type of Methodology Used:**

2

**Sample Size Used:**

**Other Details**

**Included in Highway Safety Manual?**

No

**Date Added to Clearinghouse:**

Jul-26-2019

**Comments:**

Applies to the conversion of a four-leg intersection to a single-lane or multilane roundabout. CMF analysis includes roundabout locations with less than four average observed crashes per year in before period as one sample, roundabout locations with just a single data-year of crashes in before or after period, and omits roundabout locations with zero observed crashes in the before period.

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