



## CMF / CRF Details

**CMF ID: 4192**

**Convert signalized intersection to modern roundabout**

**Description:**

**Prior Condition: Signalized intersection (4 leg)**

**Category: Intersection geometry**

**Study: [Safety Effectiveness of Converting Signalized Intersections to Roundabouts, Gross et al., 2012](#)**

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 0.76

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.05

### Crash Reduction Factor (CRF)

**Value:** 24 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

5

### Applicability

**Crash Type:**

All

**Crash Severity:**

All

**Roadway Types:**

Not Specified

**Number of Lanes:**

1 to 2

**Road Division Type:**

**Speed Limit:**

15-35 mph

**Area Type:**

Urban and suburban

**Traffic Volume:**

**Time of Day:**

All

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

4-leg

**Traffic Control:**

Roundabout

**Major Road Traffic Volume:**

5300 to 52500 Annual Average Daily Traffic (AADT)

**Minor Road Traffic Volume:**

### Development Details

**Date Range of Data Used:**

2000 to 2009

**Municipality:**

**State:**

CO, FL, IN, MD, MI, NY, NC, SC, VT, WA

<b>Country:</b>	
<b>Type of Methodology Used:</b>	2
<b>Sample Size Used:</b>	Sites
<b>Before Sample Size Used:</b>	22 Sites
<b>After Sample Size Used:</b>	22 Sites

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-01-2012
<b>Comments:</b>	Countermeasure name has been slightly modified for consistency across Clearinghouse

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