



## CMF / CRF Details

**CMF ID: 4260**

**Convert signalized intersection to modern roundabout**

**Description:**

**Prior Condition: Signalized intersection**

**Category: Intersection geometry**

**Study:** [Evaluation of Safety Strategies at Signalized Intersections, Srinivasan, et al., 2011](#)

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 1.15

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.093

### Crash Reduction Factor (CRF)

**Value:** -15 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

<b>Unadjusted Standard Error:</b>	9.3
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### Applicability

<b>Crash Type:</b>	All
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<b>Crash Severity:</b>	All
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<b>Roadway Types:</b>	Not specified
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<b>Number of Lanes:</b>	1 to 2
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<b>Road Division Type:</b>	
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<b>Speed Limit:</b>	
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<b>Area Type:</b>	Urban
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<b>Traffic Volume:</b>	
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<b>Time of Day:</b>	Not specified
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### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
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<b>Intersection Geometry:</b>	3-leg,4-leg
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<b>Traffic Control:</b>	Roundabout
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<b>Major Road Traffic Volume:</b>	5322 to 43123 Annual Average Daily Traffic (AADT)
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<b>Minor Road Traffic Volume:</b>	
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### Development Details

<b>Date Range of Data Used:</b>	1999 to 2009
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<b>Municipality:</b>	
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<b>State:</b>	CO, FL, IN, MD, MI, NY, NC, SC, VT, WA
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<b>Country:</b>	USA
<b>Type of Methodology Used:</b>	Before/after using empirical Bayes or full Bayes
<b>Sample Size Used:</b>	Sites
<b>Before Sample Size Used:</b>	13 Sites
<b>After Sample Size Used:</b>	13 Sites

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-06-2012
<b>Comments:</b>	Countermeasure name has been slightly modified for consistency across Clearinghouse

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This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

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