



# CMF / CRF Details

CMF ID: 4930

**Conversion of two-way stop-controlled intersection into single- or multi-lane roundabout**

**Description:** Conversion of two-way stop-controlled intersection into single- or multi-lane roundabout.

**Prior Condition:** The intersection was operating under TWSC control.

**Category:** Intersection geometry

**Study:** [Evaluation of Roundabout Safety, Qin et al., 2013](#)

Star Quality Rating:	
<input type="text" value="2 Stars"/>	<a href="#">[View score details]</a>

Crash Modification Factor (CMF)	
Value:	0.751
Adjusted Standard Error:	
Unadjusted Standard Error:	0.105

Crash Reduction Factor (CRF)	
Value:	24.89 (This value indicates a <b>decrease</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	10.5

## Applicability

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	Not specified
<b>Number of Lanes:</b>	2,4
<b>Road Division Type:</b>	All
<b>Speed Limit:</b>	
<b>Area Type:</b>	All
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	3-leg,4-leg
<b>Traffic Control:</b>	Stop-controlled
<b>Major Road Traffic Volume:</b>	4100 (total entering) to 48100 (total entering) Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	

## Development Details

<b>Date Range of Data Used:</b>	1994 to 2010
<b>Municipality:</b>	Statewide
<b>State:</b>	WI
<b>Country:</b>	USA
<b>Type of Methodology Used:</b>	2

<b>Sample Size Used:</b>	Crashes
<b>Before Sample Size Used:</b>	122 Crashes
<b>After Sample Size Used:</b>	93 Crashes

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Aug-01-2013
<b>Comments:</b>	- Study included three-year before and after crash data for each site.- Reported traffic volume is total entering volume.

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