



CMF / CRF Details

CMF ID: 4931

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"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.65
Adjusted Standard Error:	
Unadjusted Standard Error:	0.104

Crash Reduction Factor (CRF)	
Value:	35.03 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	10.4

Applicability

Crash Type:	All
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Not specified
Number of Lanes:	2,4
Road Division Type:	All
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:	3-leg,4-leg
Traffic Control:	Stop-controlled
Major Road Traffic Volume:	4100 (total entering) to 48100 (total entering) Annual Average Daily Traffic (AADT)
Minor Road Traffic Volume:	

Development Details

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

Sample Size Used:	Crashes
Before Sample Size Used:	48 Crashes
After Sample Size Used:	18 Crashes

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

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