



CMF / CRF Details

CMF ID: 4934

Conversion of signalized intersection into single- or multi-lane roundabout

Description:

Prior Condition: The intersection was operating under signal control.

Category: Intersection geometry

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

Star Quality Rating:

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

Crash Modification Factor (CMF)

Value: 0.955

Adjusted Standard Error:

Unadjusted Standard Error: 0.317

Crash Reduction Factor (CRF)

Value: 4.54 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 31.7

Applicability

Crash Type:	All
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	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:	Signalized
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:	50 Crashes
After Sample Size Used:	90 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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