



CMF / CRF Details

CMF ID: 4935

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: 0.348

Adjusted Standard Error:

Unadjusted Standard Error: 0.76

Crash Reduction Factor (CRF)

Value: 65.21 (*This value indicates a **decrease** in crashes*)

Adjusted Standard Error:

Unadjusted Standard Error: 76

Applicability

Crash Type:

All

Crash Severity:

K (fatal),A (serious injury),B (minor injury),C (possible injury)

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:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	Crashes
Before Sample Size Used:	7 Crashes
After Sample Size Used:	11 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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