



CMF / CRF Details

CMF ID: 217

Convert signalized intersection to modern roundabout

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [*Safety Effects of Roundabouts in Flanders: Signal Type, Speed Limits, and Vulnerable Road Users, De Brabander and Vereeck, 2007*](#)

Star Quality Rating:

Crash Modification Factor (CMF)

Value: 0.87

Adjusted Standard Error:

Unadjusted Standard Error: 0.18

Crash Reduction Factor (CRF)

Value: 13 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 18

Applicability

Crash Type:

All

Crash Severity:

A (serious injury)

Roadway Types:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

Not specified

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

Not specified

Traffic Control:

Signalized

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality:

State:

Country:

Type of Methodology Used:

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Sample Size Used:	
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Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-01-2009
Comments:	Countermeasure name has been slightly modified for consistency across Clearinghouse The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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