



CMF / CRF Details

CMF ID: 232

Convert intersection with minor-road stop control to modern roundabout

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [NCHRP Report 572: Applying Roundabouts in the United States, Rodegerdts et al., 2007](#)

Star Quality Rating:

8 Stars

Crash Modification Factor (CMF)

Value: 0.19

Adjusted Standard Error: 0.09

Unadjusted Standard Error: 0.08

Crash Reduction Factor (CRF)

Value: 81 (This value indicates a **decrease** in crashes)

Adjusted Standard Error: 9

Unadjusted Standard Error: 8

Applicability

Crash Type:

All

Crash Severity:

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

Roadway Types:

Not Specified

Number of Lanes:

1 or 2

Road Division Type:

Speed Limit:

Area Type:

Urban

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

4-leg

Traffic Control:

Stop-controlled

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality:

State:

Country:

Type of Methodology Used:

2

Sample Size Used:

Other Details

Included in Highway Safety Manual?

Yes. HSM lists this CMF in **bold** font to indicate that it has the highest reliability since it has an adjusted standard error of 0.1 or less.

Date Added to Clearinghouse:

Dec-01-2009

Comments:

Countermeasure name changed from "convert two-way stop-controlled intersection to roundabout" to match HSM

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