



CMF / CRF Details

CMF ID: 240

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:



Crash Modification Factor (CMF)

Value: 0.81

Adjusted Standard Error: 0.11

Unadjusted Standard Error: 0.09

Crash Reduction Factor (CRF)

Value: 19 (*This value indicates a **decrease** in crashes*)

Adjusted Standard Error: 11

Unadjusted Standard Error:

9

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not Specified

Number of Lanes:

2

Road Division Type:

Speed Limit:

Area Type:

Suburban

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:	Before/after using empirical Bayes or full Bayes
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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