



CMF / CRF Details

CMF ID: 247

Convert to roundabout

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [*The Effects of Roundabouts on Traffic Safety for Bicyclists: An Observational Study, Daniels et al., 2008*](#)

Star Quality Rating:



Crash Modification Factor (CMF)

Value: 1.27

Adjusted Standard Error: 0.34

Unadjusted Standard Error: 0.16

Crash Reduction Factor (CRF)

Value: -27 (*This value indicates an **increase** in crashes*)

Adjusted Standard Error: 34

Unadjusted Standard Error:

16

Applicability

Crash Type:

Vehicle/bicycle

Crash Severity:

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

Roadway Types:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

All

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

Not specified

Traffic Control:

Not specified

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? | No |
| Date Added to Clearinghouse: | Dec-01-2009 |
| Comments: | |

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