



CMF / CRF Details

CMF ID: 9452

Convert to roundabout interchanges

Description: Convert to interchange roundabouts with either a single roundabout or a pair.

Prior Condition: Interchanges without roundabout ramp terminals

Category: Interchange design

Study: [Safety Performance Analysis of Roundabout Interchanges in Missouri, Claros et al., 2018](#)

Star Quality Rating:



[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 1.333

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: -33.3 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

All

Number of Lanes:

2

Road Division Type:

Speed Limit:

25-45

Area Type:

All

Traffic Volume:

Time of Day:

All

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (interchange ramp terminal)

Intersection Geometry:

No values chosen.

Traffic Control:

Roundabout

Major Road Traffic Volume:

2060 to 16715 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume:

647 to 5630 Annual Average Daily Traffic (AADT)

Development Details

Date Range of Data Used:

2003 to 2016

Municipality:

State:

MO

Country:	
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Oct-27-2018
Comments:	This CMF is for all crashes at dual-lane roundabout ramp terminals. Number of lanes and speed limits entered here are for ramps.

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