



CMF / CRF Details

CMF ID: 9450

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:	
8 Stars	[View score details]

Crash Modification Factor (CMF)	
Value:	1.288
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	-28.8 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:	All
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
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 fatal and injury crashes at dual-lane roundabout ramp terminals. Number of lanes and speed limits entered here are for ramps.

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.