



CMF / CRF Details

CMF ID: 7915

Roundabout geometry

Description: Various geometric elements of roundabout

Prior Condition: Entry path radius of 15 meters

Category: Intersection geometry

Study: [Development of Safety Performance Measures for Urban Roundabouts in India, Anjana and Anjaneyulu, 2015](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value:

$$CMF_{inj,EPR} = \exp [0.001 \times (EPR - 15)]$$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

(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:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

Urban

Traffic Volume:

Time of Day:

All

If countermeasure is intersection-based

Intersection Type:

Intersection Geometry:

No values chosen.

Traffic Control:

Roundabout

Major Road Traffic Volume:

19197 to 71307 Average Daily Traffic (ADT)

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

2008 to 2010

Municipality:

Kerala

State:

Country:	India
Type of Methodology Used:	7
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-08-2016
Comments:	CMF function for injury crashes for Entry Path Radius (EPR) of roundabout (meter). The CMF applies to roundabout approaches.

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

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