



CMF / CRF Details

CMF ID: 4697

Convert high-speed rural intersection (4 leg) to roundabout

Description: Convert a high speed rural 4 leg intersection into a roundabout

Prior Condition: 4 leg intersection

Category: Intersection geometry

Study: [*A Statistical Analysis and Development of a Crash Prediction Model for Roundabouts on High-Speed Rural Roadways, Isebrands, 2012*](#)

Star Quality Rating:	
<input type="text" value="2 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.32
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	68 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

1 to 2

Road Division Type:

Speed Limit:

40-65 mph

Area Type:

Rural

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

4-leg

Traffic Control:

Roundabout

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality:

State:

KS, MD, MN, OR, WA, WI

Country:

Type of Methodology Used:

2

Sample Size Used:	Site-years
Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	May-01-2013
Comments:	

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