



CMF / CRF Details

CMF ID: 5192

Change intersection skew angle

Description: Skew angle is defined as the absolute value of the difference between 90 degrees and the actual intersection angle (see illustration).

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [Prediction of the Expected Safety Performance of Rural Two-Lane Highways, Harwood et al., 2000](#)

Star Quality Rating:	
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Crash Modification Factor (CMF)

Value:	$CMF = \frac{0.017 \times skew}{(0.52 + 0.017 \times skew)} + 1.0$
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:

All

Roadway Types:

Minor Arterial

Number of Lanes:

Multilane

Road Division Type:

Speed Limit:

Area Type:

Rural

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

3-leg

Traffic Control:

Stop-controlled

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality:

State:

No state(s) chosen.

Country:	
Type of Methodology Used:	
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	
Date Added to Clearinghouse:	Dec-01-2009
Comments:	HSM 1st Ed, page 14-20

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