



CMF / CRF Details

CMF ID: 5184

Improve superelevation variance (SV) where $SV > 0.02$

Description: Superelevation variance is the difference between recommended design value for superelevation and existing superelevation on a horizontal curve, where existing superelevation is less than recommended.

Prior Condition: *No Prior Condition(s)*

Category: Alignment

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:	$CMF = 1.00 + 3 \times (SV - 0.02)$
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:

2

Road Division Type:

Speed Limit:

Area Type:

Rural

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Intersection Geometry:

Traffic Control:

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality:

State:

Country:	
Type of Methodology Used:	
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	
Date Added to Clearinghouse:	Dec-01-2009
Comments:	Based on a horizontal curve radius of 842.5 ft. To determine the CMF for changing the condition, divide the "new" condition CMF by the "existing" condition CMF.

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