



CMF / CRF Details

CMF ID: 4826

Change in pavement friction from X to Y (in friction number)

Description: Change in pavement friction on a rural two-lane highway from X to Y (in friction number)

Prior Condition: Prior pavement friction number

Category: Roadway

Study: [Efficacies of roadway safety improvements across functional subclasses of rural two-lane highways, Labi, 2011](#)

Star Quality Rating:

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

Crash Modification Factor (CMF)

Value:

$$CMF = e^{(-0.01640(Y-X))}$$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

$$CRF = 100 \times (1 - e^{(-0.01640(Y-X))})$$

Adjusted Standard Error:

Unadjusted Standard Error:	
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Applicability

Crash Type:	All
Crash Severity:	A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Major Collector
Number of Lanes:	2
Road Division Type:	Undivided
Speed Limit:	
Area Type:	Rural
Traffic Volume:	
Time of Day:	All

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:	1997 to 2000
Municipality:	
State:	IN
Country:	
Type of Methodology Used:	7

Sample Size Used:	2160 Site-years
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Other Details

Included in Highway Safety Manual?	No
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Date Added to Clearinghouse:	May-01-2013
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Comments:	There is no indication of statistical significance in the paper. As such, the star rating does not reflect the level of significance. Also, there is no indication of sample size in terms of number of crashes. The star rating reflects a moderate sample based on the number of site-years.
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