CMF / CRF Details

CMF ID: 4838

Change in average horizontal curve radius from X to Y (in miles)

Description: Change in average horizontal curve radius on rural two-lane highways from X to Y (in

miles)

Prior Condition: average horizontal curve radius X (in miles)

Value:

Category: Alignment

Study: Efficacies of roadway safety improvements across functional subclasses of rural two-lane

highways, Labi, 2011

Star Quality Rating: 2 Stars [View score details] **Crash Modification Factor (CMF)**

 $CMF = e^{(0.0635(Y-X))}$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

$$CRF = 100 \times (1 - e^{(0.0635(Y-X))})$$

Adjusted **Standard**

Applicability		
Crash Type:	All	
Crash Severity:	A (serious injury),B (minor injury),C (possible injury)	
Roadway Types:	Minor Arterial	
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	

Samn	le Size	IICAN'

2160 Site-years

Other Details		
Included in Highway Safety Manual?	No	
Date Added to Clearinghouse:	May-01-2013	
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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