



CMF / CRF Details

CMF ID: 5215

Modify length of acceleration lane

Description: Modify length of acceleration lane

Prior Condition: *No Prior Condition(s)*

Category: Interchange design

Study: [Highway Safety Manual, 1st Edition, Various, 2010](#)

Star Quality Rating:

Crash Modification Factor (CMF)

Value:

$$CMF = e^{-2.59(L_{accelNew} - L_{accelExist})}$$

Where:

$L_{accelNew}$ = new (or proposed) length of acceleration lane in miles

$L_{accelExisting}$ = existing length of acceleration lane in miles

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	
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Crash Type:	All
Crash Severity:	All
Roadway Types:	Principal Arterial Interstate
Number of Lanes:	
Road Division Type:	
Speed Limit:	
Area Type:	
Traffic Volume:	
Time of Day:	

<i>If countermeasure is intersection-based</i>	
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Intersection Type:	
Intersection Geometry:	
Traffic Control:	
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details	
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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:	
Comments:	HSM 1st Ed, page 15-6. Length of acceleration lane is measured from the nose of the gore area to the end of the lane drop taper.

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