



# CMF / CRF Details

CMF ID: 5216

**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:	
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Crash Modification Factor (CMF)	
Value:	$CMF = e^{-4.55(L_{accelNew} - L_{accelExist})}$ <p>Where: <math>L_{accelNew}</math> = new (or proposed) length of acceleration lane in miles <math>L_{accelExisting}</math> = existing length of acceleration lane in miles</p>
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	(This value indicates an <b>increase</b> in crashes)

<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

**Applicability**

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	K (fatal),A (serious injury),B (minor injury),C (possible injury)
<b>Roadway Types:</b>	Principal Arterial Interstate
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	

*If countermeasure is intersection-based*

<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

**Development Details**

<b>Date Range of Data Used:</b>	
<b>Municipality:</b>	

<b>State:</b>	No state(s) chosen.
<b>Country:</b>	
<b>Type of Methodology Used:</b>	
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	
<b>Date Added to Clearinghouse:</b>	
<b>Comments:</b>	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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