



CMF / CRF Details

CMF ID: 9763

Install edgeline or shoulder rumble strips

Description:

Prior Condition: Two-lane undivided highway with no edgeline or shoulder rumble strips present

Category: Roadway

Study: [Installation Guidance for Centerline and Edgeline Rumble Strips in Narrow Pavements, Savolainen et al., 2017](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.839

Adjusted Standard Error:

Unadjusted Standard Error: 0.065

Crash Reduction Factor (CRF)

Value: 16.1 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	6.5
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Applicability

Crash Type:	Other
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	2
Road Division Type:	Undivided
Speed Limit:	
Area Type:	Not specified
Traffic Volume:	10 to 17700 <i>Annual Average Daily Traffic (AADT)</i>
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:	2014 to 2015
Municipality:	
State:	IA

Country:	United States
Type of Methodology Used:	7
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Oct-27-2018
Comments:	This CMF applies to edgeline-related crashes (run off road-right, run off road-straight/right, fixed object crashes that did not included crossing the centerline)

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