



CMF / CRF Details

CMF ID: 3393

Install edgeline rumble strips

Description:

Prior Condition: *No Prior Condition(s)*

Category: Roadway

Study: [NCHRP Report 641: Guidance for the Design and Application of Shoulder and Centerline Rumble Strips, Torbic et al., 2009](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 1.31

Adjusted Standard Error:

Unadjusted Standard Error: 0.1079

Crash Reduction Factor (CRF)

Value: -31 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 10.79

Applicability

Crash Type: Run off road

Crash Severity: K (fatal),A (serious injury),B (minor injury),C (possible injury)

Roadway Types: Not Specified

Number of Lanes:

Road Division Type: Divided by Median

Speed Limit:

Area Type: Rural

Traffic Volume: 8267 to 18753 *Average Daily Traffic (ADT)*

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 2006

Municipality:

State: PA

Country:	U.S.A.
Type of Methodology Used:	Regression cross-section
Sample Size Used:	Crashes

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-21-2011
Comments:	The authors collected data on thru lanes and speed limits but did not provide those data in the report (see p. 50).

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