



CMF / CRF Details

CMF ID: 6968

Install centerline and shoulder rumble strips

Description: Milled or rolled rumble strips.

Prior Condition: There are no existing rumble strips

Category: Roadway

Study: [Safety Evaluation of Centerline Plus Shoulder Rumble Strips, Persaud et al., 2015](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.975

Adjusted Standard Error:

Unadjusted Standard Error: 0.046

Crash Reduction Factor (CRF)

Value: 2.5 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	4.6
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Applicability

Crash Type:	All
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	2
Road Division Type:	Undivided
Speed Limit:	
Area Type:	Rural
Traffic Volume:	782 to 25796 <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:	
Municipality:	
State:	PA

Country:	USA
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Nov-01-2015
Comments:	CMF for total crashes (all types and all severity levels) excludes intersection-related and animal crashes.

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

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