



CMF / CRF Details

CMF ID: 6854

Install centerline and shoulder rumble strips

Description: Milled or rolled rumble strips.

Prior Condition: No rumble strips in PA and MO. Existing shoulder rumble strips in KY (CL rumble strips as retrofits)

Category: Roadway

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

Star Quality Rating:	
5 Stars	[View score details]

Crash Modification Factor (CMF)	
Value:	0.767
Adjusted Standard Error:	
Unadjusted Standard Error:	0.097

Crash Reduction Factor (CRF)	
Value:	23.3 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	9.7

Applicability

Crash Type:	Sideswipe
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	2
Road Division Type:	Undivided
Speed Limit:	
Area Type:	Rural
Traffic Volume:	154 to 26118 <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:	KY, MO, 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 head-on and sideswipe, opposite direction crashes 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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