



CMF / CRF Details

CMF ID: 46

Install steel median barrier

Description: Install steel median barrier

Prior Condition: *No Prior Condition(s)*

Category: Roadside

Study: [Handbook of Road Safety Measures, Elvik, R. and Vaa, T., 2004](#)

Star Quality Rating:

Crash Modification Factor (CMF)

Value: 0.65

Adjusted Standard Error: 0.08

Unadjusted Standard Error: 0.04

Crash Reduction Factor (CRF)

Value: 35 (*This value indicates a **decrease** in crashes*)

Adjusted Standard Error: 8

Unadjusted Standard Error: 4

Applicability

Crash Type:	All
Crash Severity:	A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Principal Arterial Other
Number of Lanes:	Multilane
Road Division Type:	Divided
Speed Limit:	
Area Type:	Rural
Traffic Volume:	20000 to 60000
Time of Day:	

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:	
Country:	
Type of Methodology Used:	9
Sample Size Used:	

Other Details

Included in Highway Safety Manual?

Yes. HSM lists this CMF in **bold** font to indicate that it has the highest reliability since it has an adjusted standard error of 0.1 or less.

Date Added to Clearinghouse:

Dec-01-2009

Comments:

Countermeasure name changed from "install concrete guardrail in median" to match HSM

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