



CMF / CRF Details

CMF ID: 57

Install crash cushions at fixed roadside features

Description:

Prior Condition: *No Prior Condition(s)*

Category: Roadside

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

Star Quality Rating:

8 Stars

Crash Modification Factor (CMF)

Value: 0.54

Adjusted Standard Error: 0.3

Unadjusted Standard Error: 0.1

Crash Reduction Factor (CRF)

Value: 46 (This value indicates a **decrease** in crashes)

Adjusted Standard Error: 30

Unadjusted Standard Error: 10

Applicability

Crash Type:	Fixed object
Crash Severity:	0 (property damage only)
Roadway Types:	Not Specified
Number of Lanes:	
Road Division Type:	
Speed Limit:	
Area Type:	Not Specified
Traffic Volume:	
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 italics font to indicate that it has a lower reliability than bold font CMFs since it has an adjusted standard error of 0.2 to 0.3.

Date Added to Clearinghouse:

Dec-01-2009

Comments:

Countermeasure name changed to match HSM

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