



CMF / CRF Details

CMF ID: 40

Change barrier along embankment to less rigid type

Description:

Prior Condition: *No Prior Condition(s)*

Category: Roadside

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

Star Quality Rating:	
	<input type="text" value="8 Stars"/>

Crash Modification Factor (CMF)	
Value:	0.59
Adjusted Standard Error:	0.31
Unadjusted Standard Error:	0.17

Crash Reduction Factor (CRF)	
Value:	41 <i>(This value indicates a decrease in crashes)</i>
Adjusted Standard Error:	31
Unadjusted Standard Error:	17

Applicability

Crash Type:	Run off road
Crash Severity:	K (fatal)
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:

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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