



CMF / CRF Details

CMF ID: 41

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:	0.68
Adjusted Standard Error:	0.1
Unadjusted Standard Error:	0.06

Crash Reduction Factor (CRF)	
Value:	32 (This value indicates a decrease in crashes)
Adjusted Standard Error:	10
Unadjusted Standard Error:	6

Applicability

Crash Type:	Run off road
Crash Severity:	A (serious injury),B (minor injury),C (possible injury)
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 **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:

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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