



CMF / CRF Details

CMF ID: 44

Install any type of median barrier

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:	1.24
Adjusted Standard Error:	0.03
Unadjusted Standard Error:	0.02

Crash Reduction Factor (CRF)	
Value:	-24 (This value indicates an increase in crashes)
Adjusted Standard Error:	3
Unadjusted Standard Error:	2

Applicability

Crash Type:	All
Crash Severity:	All
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 median guardrails on divided highways" to match HSM

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

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.