



# CMF / CRF Details

CMF ID: 132

Install speed humps

Description:

Prior Condition: *No Prior Condition(s)*

Category: Speed management

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

Star Quality Rating:

8 Stars

## Crash Modification Factor (CMF)

Value: 0.6

Adjusted Standard Error: 0.16

Unadjusted Standard Error:

## Crash Reduction Factor (CRF)

Value: 40 (This value indicates a **decrease** in crashes)

Adjusted Standard Error: 16

Unadjusted Standard Error:

Applicability

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	A (serious injury),B (minor injury),C (possible injury)
<b>Roadway Types:</b>	Local
<b>Number of Lanes:</b>	2
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Urban and Suburban
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	

*If countermeasure is intersection-based*

<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

**Development Details**

<b>Date Range of Data Used:</b>	
<b>Municipality:</b>	
<b>State:</b>	
<b>Country:</b>	
<b>Type of Methodology Used:</b>	9
<b>Sample Size Used:</b>	

## 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:**

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