



## CMF / CRF Details

**CMF ID: 10584**

**Change speed limit**

**Description: Change speed limit from X to Y**

**Prior Condition: *No Prior Condition(s)***

**Category: Speed management**

**Study: [Developing crash modification factors for roundabouts using a cross-sectional method, Al-Marafi et al., 2020](#)**

**Star Quality Rating:**



[\[View score details\]](#)

### Crash Modification Factor (CMF)

**Value:**

$$CMF = e^{0.023(V-60)}$$

Where V is the speed limit (kph)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Crash Reduction Factor (CRF)

<b>Value:</b>	(This value indicates an <b>increase</b> in crashes)
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

<b>Applicability</b>	
<b>Crash Type:</b>	All
<b>Crash Severity:</b>	K (fatal),A (serious injury),B (minor injury),C (possible injury)
<b>Roadway Types:</b>	Not specified
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	40-70kph
<b>Area Type:</b>	Urban
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	

<b><i>If countermeasure is intersection-based</i></b>	
<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	Not specified
<b>Traffic Control:</b>	Roundabout
<b>Major Road Traffic Volume:</b>	1288 to 16071 Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	1200 to 10002 Annual Average Daily Traffic (AADT)

<b>Development Details</b>	
<b>Date Range of Data Used:</b>	2010 to 2015

<b>Municipality:</b>	Toowoomba City
<b>State:</b>	
<b>Country:</b>	Australia
<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-17-2020
<b>Comments:</b>	CMFunction for speed limit (kph) on the major approach

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