



CMF / CRF Details

CMF ID: 2954

Increase speed limit of major road of a 4-leg signalized intersection from less than 50 km/h to greater than or equal to 50 km/h (motorcycle crashes)

Description: Change the speed limit of the major road of a four-legged signalized intersection from less than 50 km/h to greater than or equal to 50 km/h (effect on motorcycle crashes)

Prior Condition: speed limit of less than 50 km/h

Category: Speed management

Study: [Applying Bayesian Hierarchical Models to Examine Motorcycle Crashes at Signalized Intersections, Haque et al., 2010](#)

Star Quality Rating:	
<input type="text" value="3 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	2.19
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	-119 (This value indicates an increase in crashes)
Adjusted Standard Error:	

Unadjusted Standard Error:

Applicability

Crash Type: All

Crash Severity: All

Roadway Types: Not Specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type: Urban

Traffic Volume:

Time of Day: All

If countermeasure is intersection-based

Intersection Type: Not specified

Intersection Geometry: 4-leg

Traffic Control: Signalized

Major Road Traffic Volume: 5700 to 37520 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume: 2850 to 31270 Annual Average Daily Traffic (AADT)

Development Details

Date Range of Data Used: 2003 to 2006

Municipality:

State:

Country:	Singapore
Type of Methodology Used:	7
Sample Size Used:	1948 Crashes

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-21-2011
Comments:	Only motorcycle related crashes

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.