



CMF / CRF Details

CMF ID: 2952

Install uncontrolled left-turn lane on major road of a 4-leg signalized intersection (motorcycle crashes)

Description: Install uncontrolled left-turn lane on the major road of a four-legged signalized intersection (effect on motorcycle crashes)

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

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

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 1.23

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: -23 (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:	Regression cross-section
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

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