



CMF / CRF Details

CMF ID: 2961

Change number of lanes on minor road of a signalized T intersection (motorcycle crashes)

Description: Change the number of turn lanes on the minor road of a signalized T 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:

$$e^{0.548(Y-X)}$$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

| | |
|-----------------------------------|------------------------------|
| Value: | $100 * (1 - e^{0.548(Y-X)})$ |
| 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 |

| <i>If countermeasure is intersection-based</i> | |
|---|---|
| Intersection Type: | Not specified |
| Intersection Geometry: | 3-leg |
| Traffic Control: | Signalized |
| Major Road Traffic Volume: | 4800 to 30270 Annual Average Daily Traffic (AADT) |
| Minor Road Traffic Volume: | 2550 to 25010 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: | 400 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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