



## CMF / CRF Details

**CMF ID: 2090**

**Presence of exclusive left turn (transit-serviced locations)**

**Description:**

**Prior Condition: signalized intersection**

**Category: Intersection geometry**

**Study: [Analysis of Transit Safety at Signalized Intersections in Toronto, Salah et al., 2009](#)**

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 0.88

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.029

### Crash Reduction Factor (CRF)

**Value:** 11.7 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

<b>Unadjusted Standard Error:</b>	2.9
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### Applicability

<b>Crash Type:</b>	All
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<b>Crash Severity:</b>	All
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<b>Roadway Types:</b>	Not Specified
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<b>Number of Lanes:</b>	
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<b>Road Division Type:</b>	
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<b>Speed Limit:</b>	
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<b>Area Type:</b>	Urban
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<b>Traffic Volume:</b>	
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<b>Time of Day:</b>	All
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### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
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<b>Intersection Geometry:</b>	
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<b>Traffic Control:</b>	Signalized
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<b>Major Road Traffic Volume:</b>	3556 to 50877 Annual Average Daily Traffic (AADT)
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<b>Minor Road Traffic Volume:</b>	
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### Development Details

<b>Date Range of Data Used:</b>	1999 to 2003
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<b>Municipality:</b>	City of Toronto, Canada
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<b>State:</b>	
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<b>Country:</b>	
<b>Type of Methodology Used:</b>	Regression cross-section
<b>Sample Size Used:</b>	1655

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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