



# CMF / CRF Details

**CMF ID: 4645**

**Provide a left-turn lane on one major-road approach**

**Description:**

**Prior Condition: Three-leg intersection without left-turn lane**

**Category: Intersection geometry**

**Study: [Prediction of the Expected Safety Performance of Rural Two-Lane Highways, Harwood et al., 2000](#)**

<b>Star Quality Rating:</b>	

<b>Crash Modification Factor (CMF)</b>	
<b>Value:</b>	0.94
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

<b>Crash Reduction Factor (CRF)</b>	
<b>Value:</b>	6 (This value indicates a <b>decrease</b> in crashes)
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	

## Applicability

**Crash Type:**

All

**Crash Severity:**

K (fatal),A (serious injury),B (minor injury),C (possible injury)

**Roadway Types:**

Minor Arterial

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Urban

**Traffic Volume:**

**Time of Day:**

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

3-leg

**Traffic Control:**

Signalized

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

**Municipality:**

**State:**

**Country:**

**Type of Methodology Used:**

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<b>Sample Size Used:</b>	
<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	HSM 1st Ed, Table 14-10

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