



# CMF / CRF Details

CMF ID: 2971

Provide a right-turn lane on one major-road approach

**Description:**

**Prior Condition:** Neither major approach to a 4-leg unsignalized intersection has a right-turn lane

**Category:** Intersection geometry

**Study:** [Using a Reliability Process to Reduce Uncertainty in Predicting Crashes at Unsignalized Intersections, Haleem et al., 2010](#)

Star Quality Rating:

8 Stars

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

## Crash Modification Factor (CMF)

**Value:** 0.75

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.19

## Crash Reduction Factor (CRF)

**Value:** 25 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 18.8

**Applicability**

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	Not Specified
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Not specified
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

***If countermeasure is intersection-based***

<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	4-leg
<b>Traffic Control:</b>	Stop-controlled
<b>Major Road Traffic Volume:</b>	8955 to 66171 Annual Average Daily Traffic (AADT)
<b>Minor Road Traffic Volume:</b>	

**Development Details**

<b>Date Range of Data Used:</b>	2003 to 2006
<b>Municipality:</b>	Orange County
<b>State:</b>	FL
<b>Country:</b>	U.S.A.

<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	176 Crashes

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Mar-21-2011
<b>Comments:</b>	Countermeasure name has been slightly modified for consistency across Clearinghouse

---

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.*