



# CMF / CRF Details

CMF ID: 7854

Install left-turn lane

Description:

Prior Condition: Intersections without left-turn lanes

Category: Intersection geometry

Study: [Validation and Application of Highway Safety Manual \(Part D\) in Florida, Abdel-Aty et al., 2014](#)

Star Quality Rating:

Stars

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

## Crash Modification Factor (CMF)

Value: 0.64

Adjusted Standard Error:

Unadjusted Standard Error: 0.14

## Crash Reduction Factor (CRF)

Value: 36 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 14

## Applicability

**Crash Type:**

All

**Crash Severity:**

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

**Roadway Types:**

Not specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Rural

**Traffic Volume:**

**Time of Day:**

All

*If countermeasure is intersection-based*

**Intersection Type:**

**Intersection Geometry:**

4-leg

**Traffic Control:**

Stop-controlled

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

2007 to 2011

**Municipality:**

**State:**

FL

**Country:**

USA

**Type of Methodology Used:**

1

**Sample Size Used:**

**Other Details**

**Included in Highway Safety Manual?**

No

**Date Added to Clearinghouse:**

Mar-08-2016

**Comments:**

The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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