



# CMF / CRF Details

CMF ID: 7849

Install a traffic signal

Description:

Prior Condition: Stop-Controlled Intersections

Category: Intersection traffic control

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

Star Quality Rating:

4 Stars

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

## Crash Modification Factor (CMF)

Value: 0.46

Adjusted Standard Error:

Unadjusted Standard Error: 0.08

## Crash Reduction Factor (CRF)

Value: 54 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 8

## Applicability

**Crash Type:** Angle

**Crash Severity:** All

**Roadway Types:** Not specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:** Urban

**Traffic Volume:**

**Time of Day:** All

### *If countermeasure is intersection-based*

**Intersection Type:** Not specified

**Intersection Geometry:** 4-leg

**Traffic Control:** Stop-controlled

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:** 2005 to 2009

**Municipality:**

**State:** FL

**Country:** USA

**Type of Methodology Used:** 2

**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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