



# CMF / CRF Details

**CMF ID: 9018**

**Install advanced yield or stop markings and signs**

**Description: Install advanced yield or stop markings and signs**

**Prior Condition: No advanced yield or stop markings and signs**

**Category: Pedestrians**

**Study: [Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments, Zegeer et al., 2017](#)**

**Star Quality Rating:**

3 Stars

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

## Crash Modification Factor (CMF)

**Value:** 0.886

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.065

## Crash Reduction Factor (CRF)

**Value:** 11.4 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 6.5

## Applicability

**Crash Type:**

All

**Crash Severity:**

All

**Roadway Types:**

Minor Arterial

**Number of Lanes:**

2 to 8

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Urban and suburban

**Traffic Volume:**

340 to 52892 *Annual Average Daily Traffic (AADT)*

**Time of Day:**

All

### *If countermeasure is intersection-based*

**Intersection Type:**

**Intersection Geometry:**

**Traffic Control:**

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

## Development Details

**Date Range of Data Used:**

2004 to 2013

**Municipality:**

**State:**

AZ, FL, IL, MA, NY, NC, OR, VA, WI

**Country:**

USA

**Type of Methodology Used:**

2

<b>Sample Size Used:</b>	
<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-17-2017
<b>Comments:</b>	Study sites were a combination of intersection and mid-block locations.

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