

## CMF / CRF Details

CMF ID: 9938

Install a traffic signal

Description:

Prior Condition: All-way stop-controlled

Category: Intersection traffic control

Study: [Effects of Signalization at Rural Intersections Considering the Elderly Driving Population, Yue et al., 2019](#)

Star Quality Rating:

★★★★☆ [\[View score details\]](#)

### Crash Modification Factor (CMF)

Value:

$$CMF = e^{(0.1255 \times \ln(AADT \times (1 - elderly)))}$$

Where:

AADT = Average annual daily traffic on the major road, expressed in actual value  
 elderly = proportion of areawide drivers who are 65 years and older

Adjusted Standard Error:

Unadjusted Standard Error:

### Crash Reduction Factor (CRF)

Value:

(This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

### Applicability

Crash Type:

Rear end

Crash Severity:

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>	Rural
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All
<b><i>If countermeasure is intersection-based</i></b>	
<b>Intersection Type:</b>	Roadway/roadway (not interchange related)
<b>Intersection Geometry:</b>	4-leg
<b>Traffic Control:</b>	Other
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

<b>Development Details</b>	
<b>Date Range of Data Used:</b>	2011 to 2014
<b>Municipality:</b>	
<b>State:</b>	FL
<b>Country:</b>	
<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jul-26-2019
<b>Comments:</b>	This CMF is for crashes not involving elderly drivers.

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