

## CMF / CRF Details

CMF ID: 9942

Install a traffic signal

Description:

Prior Condition: Two-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:

$$CMF = e^{(0.1533 \times \ln(AADT \times elderly))}$$

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>	3-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 involving elderly drivers.

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

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