

CMF / CRF Details

CMF ID: 9939

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:

$$CMF = e^{(0.2781 \times \ln(AADT \times elderly))}$$

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

Roadway Types:	Not specified
Number of Lanes:	
Road Division Type:	
Speed Limit:	
Area Type:	Rural
Traffic Volume:	
Time of Day:	All
<i>If countermeasure is intersection-based</i>	
Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	4-leg
Traffic Control:	Other
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

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

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jul-26-2019
Comments:	This CMF is for crashes involving elderly drivers.

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