



CMF / CRF Details

CMF ID: 5570


Install a traffic signal

Description:

Prior Condition: Intersections were unsignalized

Category: Intersection traffic control

Study: [Evaluating the Safety Effects of Signal Improvements, Schultz et al., 2014](#)

Star Quality Rating:	
	[View score details]

Crash Modification Factor (CMF)	
Value:	2.16
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	-116 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type: Rear end

Crash Severity: All

Roadway Types: All

Number of Lanes:

Road Division Type:

Speed Limit: 30-65

Area Type: Not specified

Traffic Volume:

Time of Day: All

If countermeasure is intersection-based

Intersection Type: Not specified

Intersection Geometry: No values chosen.

Traffic Control: Not specified

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used: 2002 to 2011

Municipality:

State: UT

Country:

Type of Methodology Used:	4
Sample Size Used:	
Before Sample Size Used:	77
After Sample Size Used:	77

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Aug-12-2014
Comments:	CMF for new signal installation of rear-end crashes. Hierarchical Bayesian Method is used. Four roadway types: other principal arterials, other freeway/expressway, minor arterial, and major collectors.

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