



CMF / CRF Details

CMF ID: 5576

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: 1.42

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: -42 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type:

All

Crash Severity:

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 non-severe crashes.Hierarchical Bayesian Method is used.Four roadway types: other principal arterials, other freeway/expressway,minor arterial,and major collectors.

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