



## CMF / CRF Details

CMF ID: 319

Install a traffic signal

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection traffic control

Study: [NCHRP Report 491: Crash Experience Warrant for Traffic Signals, McGee et al., 2003](#)

Star Quality Rating:



### Crash Modification Factor (CMF)

Value: 0.77

Adjusted Standard Error: 0.27

Unadjusted Standard Error: 0.22

### Crash Reduction Factor (CRF)

Value: 23 (This value indicates a **decrease** in crashes)

Adjusted Standard Error: 27

**Unadjusted Standard Error:**

22

### Applicability

**Crash Type:**

All

**Crash Severity:**

K (fatal),A (serious injury),B (minor injury),C (possible injury)

**Roadway Types:**

Not specified

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Urban

**Traffic Volume:**

**Time of Day:**

### *If countermeasure is intersection-based*

**Intersection Type:**

Roadway/roadway (not interchange related)

**Intersection Geometry:**

4-leg

**Traffic Control:**

Stop-controlled

**Major Road Traffic Volume:**

**Minor Road Traffic Volume:**

### Development Details

**Date Range of Data Used:**

**Municipality:**

**State:**

<b>Country:</b>	
<b>Type of Methodology Used:</b>	2
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	Countermeasure name has been slightly modified for consistency across Clearinghouse

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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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