



CMF / CRF Details

CMF ID: 4122

Install a traffic signal

Description:

Prior Condition: Unsignalized intersection

Category: Intersection traffic control

Study: [*The Relative Effectiveness of Pedestrian Safety Countermeasures at Urban Intersections - Lessons from a New York City Experience, Li Chen, Cynthia Chen, and Reid Ewing, 2012*](#)

Star Quality Rating:

 Stars

[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 0.51

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: 49 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type:

Angle,Head on,Left turn,Rear end,Rear to rear,Right turn,Sideswipe

Crash Severity:

All

Roadway Types:

Not Specified

Number of Lanes:

Road Division Type:

All

Speed Limit:

Area Type:

Urban

Traffic Volume:

Time of Day:

All

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

3-leg,4-leg,More than 4 legs

Traffic Control:

Signalized

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

1998 to 2008

Municipality:

New York City

State:

NY

Country:

USA

Type of Methodology Used:	3
Sample Size Used:	Crashes
Before Sample Size Used:	2936 Crashes
After Sample Size Used:	509 Crashes

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Nov-01-2012
Comments:	Countermeasure name has been slightly modified for consistency across Clearinghouse

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

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.