



CMF / CRF Details

CMF ID: 1444

Install larger signal lenses (12 inch)

Description:

Prior Condition: Replace 8 inch signal heads with 12 inch signal heads.

Category: Intersection traffic control

Study: [Low-Cost Safety Improvements Chapter 27, The Traffic Safety Toolbox: a primer on traffic safety, Polanis, 1999](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.54

Adjusted Standard Error:

Unadjusted Standard Error: 0.075

Crash Reduction Factor (CRF)

Value: 46 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 7.5

Applicability

Crash Type: Angle

Crash Severity: All

Roadway Types: Not specified

Number of Lanes:

Road Division Type:

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:

Traffic Control: Signalized

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality: Winston Salem

State: NC

Country:	
Type of Methodology Used:	3
Sample Size Used:	Sites
Before Sample Size Used:	44 Sites
After Sample Size Used:	44 Sites

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-01-2009
Comments:	The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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.