



## CMF / CRF Details

**CMF ID: 7994**

**Install a traffic signal**

**Description:**

**Prior Condition: Intersections with a stop sign on minor roads**

**Category: Intersection traffic control**

**Study: [Safety Evaluation of Signal Installation With and Without Left Turn Lanes on Two Lane Roads in Rural and Suburban Areas, Srinivasan et al., 2014](#)**

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 0.415

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.033

### Crash Reduction Factor (CRF)

**Value:** 58.5 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

<b>Unadjusted Standard Error:</b>	3.3
-----------------------------------	-----

### Applicability

<b>Crash Type:</b>	Other
--------------------	-------

<b>Crash Severity:</b>	All
------------------------	-----

<b>Roadway Types:</b>	Not specified
-----------------------	---------------

<b>Number of Lanes:</b>	2
-------------------------	---

<b>Road Division Type:</b>	
----------------------------	--

<b>Speed Limit:</b>	
---------------------	--

<b>Area Type:</b>	All
-------------------	-----

<b>Traffic Volume:</b>	
------------------------	--

<b>Time of Day:</b>	All
---------------------	-----

### *If countermeasure is intersection-based*

<b>Intersection Type:</b>	Not specified
---------------------------	---------------

<b>Intersection Geometry:</b>	4-leg
-------------------------------	-------

<b>Traffic Control:</b>	Stop-controlled
-------------------------	-----------------

<b>Major Road Traffic Volume:</b>	2480 to 17566 Annual Average Daily Traffic (AADT)
-----------------------------------	---

<b>Minor Road Traffic Volume:</b>	746 to 5803 Annual Average Daily Traffic (AADT)
-----------------------------------	---

### Development Details

<b>Date Range of Data Used:</b>	1992 to 2012
---------------------------------	--------------

<b>Municipality:</b>	
----------------------	--

<b>State:</b>	NC
---------------	----

<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>	Nov-10-2016
<b>Comments:</b>	The CMF was developed for both rural and suburban areas. CMF applies to frontal impact crashes, including 1) left turn same roadway, 2) left turn different roadway, 3) angle, 4) right turn same roadway, 5) right turn different roadway, 6) sideswipe, and 7) head-on.

---

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.*