



## CMF / CRF Details

**CMF ID: 7986**

**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:** 0.642

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.048

### Crash Reduction Factor (CRF)

**Value:** 35.8 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

|                                   |     |
|-----------------------------------|-----|
| <b>Unadjusted Standard Error:</b> | 4.8 |
|-----------------------------------|-----|

### Applicability

|                    |     |
|--------------------|-----|
| <b>Crash Type:</b> | All |
|--------------------|-----|

|                        |   |
|------------------------|---|
| <b>Crash Severity:</b> | K (fatal),A (serious injury),B (minor injury),C (possible injury) |
|------------------------|---|

|                       |               |
|-----------------------|---------------|
| <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> | 3-leg,4-leg |
|-------------------------------|-------------|

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

|                                   |   |
|-----------------------------------|---|
| <b>Major Road Traffic Volume:</b> | 2480 to 18025 Annual Average Daily Traffic (AADT) |
|-----------------------------------|---|

|                                   |   |
|-----------------------------------|---|
| <b>Minor Road Traffic Volume:</b> | 746 to 6829 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. |

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