



CMF / CRF Details

CMF ID: 7992

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: 0.42

Adjusted Standard Error:

Unadjusted Standard Error: 0.032

Crash Reduction Factor (CRF)

Value: 58 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

| | |
|-----------------------------------|-----|
| Unadjusted Standard Error: | 3.2 |
|-----------------------------------|-----|

Applicability

| | |
|--------------------|-------|
| Crash Type: | Other |
|--------------------|-------|

| | |
|------------------------|-----|
| Crash Severity: | All |
|------------------------|-----|

| | |
|-----------------------|---------------|
| Roadway Types: | Not specified |
|-----------------------|---------------|

| | |
|-------------------------|---|
| Number of Lanes: | 2 |
|-------------------------|---|

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|----------------------------|--|
| Road Division Type: | |
|----------------------------|--|

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|---------------------|--|
| Speed Limit: | |
|---------------------|--|

| | |
|-------------------|-----|
| Area Type: | All |
|-------------------|-----|

| | |
|------------------------|--|
| Traffic Volume: | |
|------------------------|--|

| | |
|---------------------|-----|
| Time of Day: | All |
|---------------------|-----|

If countermeasure is intersection-based

| | |
|---------------------------|---------------|
| Intersection Type: | Not specified |
|---------------------------|---------------|

| | |
|-------------------------------|-------------|
| Intersection Geometry: | 3-leg,4-leg |
|-------------------------------|-------------|

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|-------------------------|-----------------|
| Traffic Control: | Stop-controlled |
|-------------------------|-----------------|

| | |
|-----------------------------------|---|
| Major Road Traffic Volume: | 2480 to 18025 Annual Average Daily Traffic (AADT) |
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|-----------------------------------|---|
| Minor Road Traffic Volume: | 746 to 6829 Annual Average Daily Traffic (AADT) |
|-----------------------------------|---|

Development Details

| | |
|---------------------------------|--------------|
| Date Range of Data Used: | 1992 to 2012 |
|---------------------------------|--------------|

| | |
|----------------------|--|
| Municipality: | |
|----------------------|--|

| | |
|---------------|----|
| State: | NC |
|---------------|----|

| | |
|----------------------------------|---|
| Country: | |
| Type of Methodology Used: | 2 |
| Sample Size Used: | |

| Other Details | |
|---|--|
| Included in Highway Safety Manual? | No |
| Date Added to Clearinghouse: | Nov-10-2016 |
| Comments: | 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, and 3) angle. |

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