



CMF / CRF Details

CMF ID: 4652

Change from permissive to protected/permissive or permissive/protected phasing

Description: Change from permissive to protected/permissive or permissive/protected phasing

Prior Condition: *No Prior Condition(s)*

Category: Intersection traffic control

Study: [Highway Safety Manual, 1st Edition, Various, 2010](#)

| Star Quality Rating | |
|----------------------|--|
| Star Quality Rating: | |

| Crash Modification Factor (CMF) | |
|---------------------------------|------|
| Value: | 0.99 |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

| Crash Reduction Factor (CRF) | |
|------------------------------|---|
| Value: | 1 (This value indicates a decrease in crashes) |
| Adjusted Standard Error: | |
| Unadjusted Standard Error: | |

Applicability

Crash Type:

All

Crash Severity:

All

Roadway Types:

Not specified

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

All

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

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:

Municipality:

State:

Country:

Type of Methodology Used:

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| | |
|--------------------------|--|
| Sample Size Used: | |
|--------------------------|--|

| Other Details | |
|---|---|
| Included in Highway Safety Manual? | |
| Date Added to Clearinghouse: | |
| Comments: | HSM 1st Ed, Table 14-24. The HSM indicates in a footnote, "If several approaches to a signalized intersection have left-turn phasing, the values of the CMF for each approach should be multiplied together." |

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