



CMF / CRF Details

CMF ID: 204

Convert four-leg intersection into two three-leg intersections

Description:

Prior Condition: *No Prior Condition(s)*

Category: Intersection geometry

Study: [Handbook of Road Safety Measures, Elvik, R. and Vaa, T., 2004](#)

Star Quality Rating:

8 Stars

Crash Modification Factor (CMF)

Value:

1

Adjusted Standard Error:

0.09

Unadjusted Standard Error:

0.05

Crash Reduction Factor (CRF)

Value:

0 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

9

Unadjusted Standard Error:

5

Applicability

Crash Type:	All
Crash Severity:	0 (property damage only)
Roadway Types:	Not Specified
Number of Lanes:	
Road Division Type:	
Speed Limit:	
Area Type:	Urban
Traffic Volume:	
Time of Day:	

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	4-leg
Traffic Control:	Not Specified
Major Road Traffic Volume:	
Minor Road Traffic Volume:	15% of total entering to 30% of total entering Unit Unknown

Development Details

Date Range of Data Used:	
Municipality:	
State:	
Country:	
Type of Methodology Used:	9
Sample Size Used:	

Other Details

Included in Highway Safety Manual?

Yes. HSM lists this CMF in bold font to indicate that it has the highest reliability since it has an adjusted standard error of 0.1 or less. However, it also includes an asterisk (*) to indicate that the CMF value itself is within the range 0.90 to 1.10, but that the confidence interval defined by the $CMF \pm$ two times the standard error may contain the value 1.0. This is important to note since a treatment with such an CMF could potentially result in (a) a reduction in crashes (safety benefit), (b) no change, or (c) an increase in crashes (safety disbenefit). HSM recommends that this CMF should be used with caution.

Date Added to Clearinghouse:

Dec-01-2009

Comments:

Countermeasure name changed to match HSM

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

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