



CMF / CRF Details

CMF ID: 4653

Change from permissive to protected

Description: Change from permissive to protected

Prior Condition: Permissive left-turn phase

Category: Intersection traffic control

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

Star Quality Rating:	

Crash Modification Factor (CMF)

Value:	0.94
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)

Value:	6 (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:	Not specified
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:	11
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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