



CMF / CRF Details

CMF ID: 4576

Change left-turn phase to protected phasing on one or more approaches

Description: Change from permissive, permissive/protected, or protected/permissive to protected phasing on one or more approaches at urban signalized intersection

Prior Condition: Permissive, permissive/protected, or protected/permissive phasing.

Category: Intersection traffic control

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

Star Quality Rating	
Star Quality Rating:	

Crash Modification Factor (CMF)	
Value:	0.01
Adjusted Standard Error:	
Unadjusted Standard Error:	0.01

Crash Reduction Factor (CRF)	
Value:	99 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	1

Applicability

Crash Type:	Left turn
Crash Severity:	All
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:	3-leg,4-leg
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:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	
Date Added to Clearinghouse:	
Comments:	Crash type is for left-turn crashes on treated approaches.

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