CMF / CRF Details

CMF ID: 8840

Install Red-light indicator lights

Description: Red-light indicator lights are mounted on the signal head or on the mast arm. The indicator activates simultaneously with the red interval, allowing an enforcement officer downstream to identify if a vehicle has violated the red interval.

Prior Condition: 4-legged signalized intersection without RLIL

Category: Advanced technology and ITS

Study: <u>Safety Evaluation of Red-Light Indicator Lights in Florida</u>, Himes et al., 2017

Star Quality Rating: [View score details]

Crash Modification Factor (CMF)

Value: 0.905

Adjusted Standard Error: 0.042

Crash Reduction Factor (CRF)		
Value:	9.5 (This value indicates a decrease in crashes)	
Adjusted Standard Error:		

Applicability		
Crash Type:	Angle	
Crash Severity:	All	
Roadway Types:	Not specified	
Number of Lanes:		
Road Division Type:		
Speed Limit:		
Area Type:	Not specified	
Traffic Volume:		
Time of Day:	All	
If countermeasure is intersection-based		
Intersection Type:	Roadway/roadway (not interchange related)	
Intersection Geometry:	4-leg	
Traffic Control:	Signalized	
Major Road Traffic Volume:	5900 to 80500 Annual Average Daily Traffic (AADT)	
Minor Road Traffic Volume:	845 to 62666 Annual Average Daily Traffic (AADT)	

Development Details		
Date Range of Data Used:	2003 to 2012	
Municipality:		
State:	FL	

Country:	USA
Type of Methodology Used:	2
Sample Size Used:	

Other Details		
Included in Highway Safety Manual?	No	
Date Added to Clearinghouse:	Nov-17-2017	
Comments:	Disaggregated CMF for more than two years after RLIL installation The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a beneift of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggragate dataset used for CMF development.	

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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