



CMF / CRF Details

CMF ID: 10560

Install adaptive traffic signal control

Description: ATSC is a traffic management strategy in which traffic signal timings change, or adapt, based on observed traffic demand. These systems utilize increased detection to continually collect data on observed demand, and signal timings are then re-optimized based on current data.

Prior Condition: *No Prior Condition(s)*

Category: Intersection traffic control

Study: [*Developing Florida-specific Mobility Enhancement Factors \(MEFs\) and Crash Modification Factors \(CMFs\) for TSM&O Strategies, Alluri et al., 2020*](#)

Star Quality Rating:



[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 0.878

Adjusted Standard Error:

Unadjusted Standard Error: 0.004

Crash Reduction Factor (CRF)

Value: 12.2 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:	
Unadjusted Standard Error:	0.4

Applicability	
Crash Type:	Rear end
Crash Severity:	All
Roadway Types:	Principal Arterial Other
Number of Lanes:	
Road Division Type:	
Speed Limit:	
Area Type:	
Traffic Volume:	
Time of Day:	

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	No values chosen.
Traffic Control:	Signalized
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details	
Date Range of Data Used:	2011 to 2018
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:	Dec-17-2020
Comments:	

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