

CMF / CRF Details

CMF ID: 3072

Change number of traffic signal cycles per hour on arterial with signal coordination from X to Y

Description:

Prior Condition: No Prior Condition(s)

Category: Intersection traffic control

Study: Safety Effect of Arterial Signal Coordination, Wei and Tarko, 2011

Star Quality Rating: [View score details]

Crash Modification Factor (CMF)

Value:

 $\rho^{-0.0444(Y-X)}$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

 $100 * (1 - e^{-0.0444(Y-X)})$

Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability	
Crash Type:	Rear end
Crash Severity:	All
Roadway Types:	All
Number of Lanes:	1 to 3
Road Division Type:	
Speed Limit:	30-50 mph
Area Type:	Urban and suburban
Traffic Volume:	
Time of Day:	All
If countermeasure is intersection-based	
Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	
Traffic Control:	Signalized
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details	
Date Range of Data Used:	2003 to 2006
Municipality:	

State:	IN
Country:	USA
Type of Methodology Used:	7
Sample Size Used:	324

Other Details		
Included in Highway Safety Manual?	No	
Date Added to Clearinghouse:	Jul-15-2011	
Comments:		

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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