



CMF / CRF Details

CMF ID: 7938

Increase from 4 lanes to 6 lanes

Description:

Prior Condition: 4 lane roadway with LOS E

Category: Roadway

Study: [Assessment of safety effects for widening urban roadways in developing crash modification functions using nonlinearizing link functions, Park et al., 2015](#)

Star Quality Rating:	
<input type="text" value="4 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	0.742
Adjusted Standard Error:	
Unadjusted Standard Error:	0.157

Crash Reduction Factor (CRF)	
Value:	25.8 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	15.7

Applicability

Crash Type:	All
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Not specified
Number of Lanes:	
Road Division Type:	
Speed Limit:	40-60
Area Type:	Urban
Traffic Volume:	20500 to 60683 <i>Annual Average Daily Traffic (AADT)</i>
Time of Day:	

If countermeasure is intersection-based

Intersection Type:	
Intersection Geometry:	
Traffic Control:	
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details

Date Range of Data Used:	2003 to 2012
Municipality:	
State:	FL
Country:	
Type of Methodology Used:	2

Sample Size Used:	
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Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-08-2016
Comments:	LOS change from E (4 lanes) to D (6 lanes) 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 benefit 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 disaggregate dataset used for CMF development.

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