



CMF / CRF Details

CMF ID: 7939

Increase from 4 lanes to 6 lanes

Description:

Prior Condition: 4 lane roadway with LOS D

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:



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

Crash Modification Factor (CMF)

Value: 0.868

Adjusted Standard Error:

Unadjusted Standard Error: 0.175

Crash Reduction Factor (CRF)

Value: 13.2 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	17.5
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Applicability

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

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

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

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-08-2016
Comments:	LOS change from D (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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