



CMF / CRF Details

CMF ID: 3012

Change right shoulder width from X to Y

Description: Change right shoulder width from X to Y

Prior Condition: right shoulder width of an unsignalized 3-leg intersection of X

Category: Shoulder treatments

Study: [The Group Least Absolute Shrinkage and Selection Operator "GLASSO" Technique: Application in Variable Selection and Crash Prediction at Unsignalized Intersections, Haleem and Abdel-Aty, 2010](#)

Star Quality Rating:

8 Stars

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

Crash Modification Factor (CMF)

Value:

$$e^{-0.0017(Y-X)}$$

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value:

$$100 * (1 - e^{-0.0017(Y-X)})$$

Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability	
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Crash Type:	All
Crash Severity:	All
Roadway Types:	Not Specified
Number of Lanes:	2 to 8
Road Division Type:	All
Speed Limit:	
Area Type:	All
Traffic Volume:	
Time of Day:	All

<i>If countermeasure is intersection-based</i>	
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Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	3-leg
Traffic Control:	Stop-controlled
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details	
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Date Range of Data Used:	2003 to 2006
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Municipality:	
State:	FL
Country:	U.S.A.
Type of Methodology Used:	7
Sample Size Used:	1735 Sites

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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