



CMF / CRF Details

CMF ID: 4370

Increasing the outside shoulder width inside the work zone by one foot

Description: Increasing the outside shoulder width inside the work zone by one foot

Prior Condition: Regular traffic conditions without work zone

Category: Work zone

Study: [Improving Safety in High-Speed Work Zones: A Super 70 Study, Tarko, Andrew P.; Bin Islam, Mouyid ; Thomaz, Jose E., 2011](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.948

Adjusted Standard Error:

Unadjusted Standard Error: 0.01

Crash Reduction Factor (CRF)

Value: 5.2 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:	1
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Applicability

Crash Type:	All
Crash Severity:	All
Roadway Types:	Principal Arterial Interstate
Number of Lanes:	
Road Division Type:	Divided by Median
Speed Limit:	
Area Type:	Urban
Traffic Volume:	
Time of Day:	Not specified

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:	2006 to 2008
Municipality:	Indianapolis
State:	IN

Country:	USA
Type of Methodology Used:	7
Sample Size Used:	1403

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-06-2012
Comments:	CMF identified from Appendix H

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