



CMF / CRF Details

CMF ID: 10878

Convert intersection to media U-turn (MUT) intersection

Description:

Prior Condition: Conventional Signalized Intersection

Category: Intersection geometry

Study: [Safety Evaluation of Median U-Turn Crossover-Based Intersections, Al-Omari et al., 2020](#)

Star Quality Rating:	
	<input type="text" value="4 Stars"/>

Crash Modification Factor (CMF)	
Value:	1.9576
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	-95.76 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:	Other
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	
Road Division Type:	Divided by Median
Speed Limit:	
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:	4-leg
Traffic Control:	Signalized
Major Road Traffic Volume:	19267 to 72074 Annual Average Daily Traffic (AADT)
Minor Road Traffic Volume:	1204 to 58591 Annual Average Daily Traffic (AADT)

Development Details

Date Range of Data Used:	2008 to 2017
Municipality:	
State:	MI, NC, OH
Country:	
Type of Methodology Used:	7

Sample Size Used:	
--------------------------	--

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jul-01-2021
Comments:	This CMF is for Non Motorized crashes. This CMF is for Type B MUT Intersection. A pictorial representation of Type A and Type B MUT Intersection is presented in Figure 2 in the paper.

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

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.