



CMF / CRF Details

CMF ID: 10852

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:



Crash Modification Factor (CMF)

Value: 0.7732

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: 22.68 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

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:

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:

25512 to 85076 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume:

246 to 37958 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 Type A 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.