



CMF / CRF Details

CMF ID: 11180

CMF Name: Convert intersection to media U-turn (MUT) intersection

Description:

Prior Condition: Unsignalized intersection with divided four-lane boulevard major approaches and stop-controlled minor approach

Category: Intersection geometry

Study: [Safety Performance of Unsignalized Median U-Turn Intersections, Jonathan Kay, Timothy J. Gates, Peter T. Savolainen, and Md Shakir Mahmud, 2022](#)

Star Quality Rating:	
8 Stars	

Crash Modification Factor (CMF)	
Value:	1.325
Adjusted Standard Error:	
Unadjusted Standard Error:	0.059

Crash Reduction Factor (CRF)	
Value:	-32.5 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:

All

Crash Severity:

O (property damage only)

Roadway Types:

All

Number of Lanes:

Road Division Type:

Divided by Median

Speed Limit:

Area Type:

Traffic Volume:

Time of Day:

If countermeasure is intersection-based

Intersection Type:

Roadway/roadway (not interchange related)

Intersection Geometry:

Not specified

Traffic Control:

Uncontrolled

Major Road Traffic Volume:

3855 to 37443 Annual Average Daily Traffic (AADT)

Minor Road Traffic Volume:

119 to 8099 Annual Average Daily Traffic (AADT)

Development Details

Date Range of Data Used:

Municipality:

State:

MI

Country:

USA

Type of Methodology Used:

2

Sample Size Used:	
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Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Aug-25-2022
Comments:	The paper develops CMFs using both Cross-Sectional and EB Before-After analysis, and that the EB CMF was recommended by the authors.

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