



CMF / CRF Details

CMF ID: 10850

Convert intersection to restricted crossing U-turn (RCUT) intersection

Description: The RCUT, also referred to as the superstreet intersection or J-turn intersection. The conversion is for either signalized or stop-controlled.

Prior Condition: Signalized Intersection

Category: Intersection geometry

Study: [*Evaluating the Safety Effectiveness of Restricted Crossing U turn \(RCUT\) Intersections, Mishra and Pulugurtha, 2021*](#)

Star Quality Rating:	
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Crash Modification Factor (CMF)

Value:	0.689
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Adjusted Standard Error:	
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Unadjusted Standard Error:	0.405
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Crash Reduction Factor (CRF)

Value:	31.13 (This value indicates a decrease in crashes)
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Adjusted Standard Error:	
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Unadjusted Standard Error:	40.45
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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:	
Speed Limit:	
Area Type:	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:	Stop-controlled
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details

Date Range of Data Used:	
Municipality:	
State:	NC

Country:	
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jul-01-2021
Comments:	This CMF is for installation of Signalized RCUT.

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