



CMF / CRF Details

CMF ID: 4259

Convert signalized intersection to modern roundabout

Description:

Prior Condition: Signalized intersection

Category: Intersection geometry

Study: [Evaluation of Safety Strategies at Signalized Intersections, Srinivasan, et al., 2011](#)

Star Quality Rating:	
4 Stars	[View score details]

Crash Modification Factor (CMF)	
Value:	0.259
Adjusted Standard Error:	
Unadjusted Standard Error:	0.066

Crash Reduction Factor (CRF)	
Value:	74.1 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	6.6

Applicability

Crash Type:	All
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
Roadway Types:	Not specified
Number of Lanes:	1 to 2
Road Division Type:	
Speed Limit:	
Area Type:	Suburban
Traffic Volume:	
Time of Day:	Not specified

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	3-leg,4-leg
Traffic Control:	Roundabout
Major Road Traffic Volume:	5322 to 43123 Annual Average Daily Traffic (AADT)
Minor Road Traffic Volume:	

Development Details

Date Range of Data Used:	1999 to 2009
Municipality:	
State:	CO, FL, IN, MD, MI, NY, NC, SC, VT, WA
Country:	USA
Type of Methodology Used:	2

Sample Size Used:	Sites
Before Sample Size Used:	15 Sites
After Sample Size Used:	15 Sites

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-06-2012
Comments:	Countermeasure name has been slightly modified for consistency across Clearinghouse

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.