



CMF / CRF Details

CMF ID: 6160

Conversion of stop-controlled intersection into multi-lane roundabout

Description:

Prior Condition: four-leg intersection with stop control on minor

Category: Intersection geometry

Study: [Public Opinion, Traffic Performance, The Environment, and Safety After the Construction of Double-Lane Roundabouts, Hu et al., 2014](#)

Star Quality Rating:	
<input type="text" value="2 Stars"/>	[View score details]

Crash Modification Factor (CMF)	
Value:	6.016
Adjusted Standard Error:	
Unadjusted Standard Error:	3.998

Crash Reduction Factor (CRF)	
Value:	-501.6 (This value indicates an increase in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	399.8

Applicability

Crash Type:	All
Crash Severity:	0 (property damage only)
Roadway Types:	Not specified
Number of Lanes:	2
Road Division Type:	Undivided
Speed Limit:	50
Area Type:	Not specified
Traffic Volume:	
Time of Day:	All

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
Intersection Geometry:	No values chosen.
Traffic Control:	Stop-controlled
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details

Date Range of Data Used:	2003 to 2007
Municipality:	Bellingham
State:	WA
Country:	
Type of Methodology Used:	7

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

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-11-2015
Comments:	Multilane roundabout on a two-lane undivided roadway. The total entering volume was approximately 15,700 vehicles per day in the before period and 16,100 vehicles per day in the after period.

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.