



CMF / CRF Details

CMF ID: 3005

Add Two-Way-Left-Turn-Lane (TWLTL) to the major approach of an unsignalized 3-leg intersection

Description: Install Two-Way-Left-Turn-Lane (TWLTL) on major approach to unsignalized 3-leg intersection

Prior Condition: unsignalized 3-leg intersection with an open median on the major approach

Category: Access management

Study: [*The Group Least Absolute Shrinkage and Selection Operator "GLASSO" Technique: Application in Variable Selection and Crash Prediction at Unsignalized Intersections, Haleem and Abdel-Aty, 2010*](#)

Star Quality Rating:	
	<input type="text" value="3 Stars"/>

Crash Modification Factor (CMF)	
Value:	0.69
Adjusted Standard Error:	
Unadjusted Standard Error:	0.0894

Crash Reduction Factor (CRF)	
Value:	31 (This value indicates a decrease in crashes)
Adjusted Standard Error:	

Unadjusted Standard Error:	8.94
-----------------------------------	------

Applicability

Crash Type:	All
--------------------	-----

Crash Severity:	All
------------------------	-----

Roadway Types:	Not Specified
-----------------------	---------------

Number of Lanes:	2 to 8
-------------------------	--------

Road Division Type:	
----------------------------	--

Speed Limit:	
---------------------	--

Area Type:	All
-------------------	-----

Traffic Volume:	
------------------------	--

Time of Day:	All
---------------------	-----

If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
---------------------------	---

Intersection Geometry:	3-leg
-------------------------------	-------

Traffic Control:	Stop-controlled
-------------------------	-----------------

Major Road Traffic Volume:	
-----------------------------------	--

Minor Road Traffic Volume:	
-----------------------------------	--

Development Details

Date Range of Data Used:	2003 to 2006
---------------------------------	--------------

Municipality:	
----------------------	--

State:	FL
---------------	----

Country:	U.S.A.
Type of Methodology Used:	7
Sample Size Used:	1735

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jul-15-2011
Comments:	

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.