Crash Modification Factors Clearinghouse

## CRASH MODIFICATION FACTORS CLEARINGHOUSE

- ABOUT THE CLEARINGHOUSE
  - CMF Clearinghouse User Guide
  - CMF Clearinghouse Brochure
  - o CMF Update (e-Newsletter)
  - CMF Clearinghouse Webinars
  - FAQs
  - Glossary
  - Star Quality Rating
  - Relationship to the Highway Safety Manual
  - In the News
  - o Data Download (API)
- **USING CMFs**
- **DEVELOPING CMFs**
- **ADDITIONAL RESOURCES**

## **Home**

## **CMF Comparison**

Below you will find comparisons for the CMFs you chose.

Please note that the rows highlighted in light blue and bold/italic contain the differences in the selected CMFs.

>						
Countermeasure Name	Convert diamond interchange to Diverging Diamond Interchange (DDI) or Double Crossover Diamond (DCD)	to Diverging Diamond Interchange (DDI) or Double	Convert diamond interchange to Diverging Diamond Interchange (DDI) or Double Crossover Diamond (DCD)	Convert atgrade intersections to Diverging Diamond Interchanges	Convert diamond interchange to Diverging Diamond Interchange (DDI) or Double Crossover Diamond (DCD)	Convert at-grade intersections to Diverging Diamond Interchanges
CMF ID						10300
CMF	0.67	0.592	0.625	0.42	0.633	0.755
Study Reference	Hummer et al., 2016	<u>Claros et</u> al., 2015	Claros et al., 2017	Walls et al., 2018	Nye et al., 2019	Zlatkovic, <u>M.</u> , 2015
Unadjusted Standard Error CMF	0.04	0.029	0.037		0.008	0.106
CMFunction						
Star Rating	4 Stars	4 Stars	4 Stars	4 Stars	<u>4 Stars</u>	4 Stars
Crash Type	All	All	All	All	All	All
Crash Severity	All	All	All			
Crash Time of Day	All	Not specified	Not specified	All	Not specified	All
Area Type	Suburban	Urban	Urban		Not specified	
Road Division Type	Divided by Median			Divided by Median		
Road Type	Principal Arterial Other Freeways and Expressways	All	All	All	Not specified	Not specified
Number of	3-6	multilane	multilane			

Intersection			Roadway/roadway	Not.		Roadway/roadwa
Туре		Other	(interchange ramp terminal)	specified		(interchange rampe terminal)
Intersection Geometry		specified	4-leg	4-leg		
Traffic Control		Not specified		Signalized		Signalized
Speed Limit	40-45	c	Crossroad: 35-45 mph			
Study Type	Before/after using comparison group	Before/after using empirical Bayes or full Bayes	Before/after using empirical Bayes or full Bayes	empirical Bayes or full Bayes	Before/after using comparison group	Before/after using empirical Bayes or full Bayes
Years From				2006	2006	2008
Years To				2015	2017	2013
Traffic Volume Unit	Annual Average Daily Traffic (AADT)	Annual Average Daily Traffic (AADT)	Annual Average Daily Traffic (AADT)	Annual Average Daily Traffic (AADT)		Annual Average Daily Traffic (AADT)
Min Traffic Volume						
Max Traffic Volume						
Min Major Rd Volume		33000		28000		
Max Major Rd Volume		152000		40000		
Min Minor Rd Volume		16000	17000	3000		
Max Minor Rd Volume		29000	38000	18000		
Avg Traffic Volume	28168					
Avg Major Rd Volume				33638		
Avg Minor Rd Volume				11088		
State of Origin	KY,MO,NY,TN	MO	MO	MN	GA,ID,KS,KY,MN,MO,NY,NC,UT,VA,V	VY UT
Municipality						
Country	USA				USA	
Comments	The volume here is the crossover volume. CMFs of six interchanges in MO, KY, NY, and TN.	segments,	This CMF applies to the ramp terminals.			

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