

CMF / CRF Details

CMF ID: 6657

Widen shoulder

Description:

Prior Condition: Original shoulder width 4-12 ft

Category: Shoulder treatments

Study: Exploration and comparison of crash modification factors for multiple

treatments on rural multilane roadways, Park et al., 2014

Crash Modification Factor (CMF)		
Value:	0.771	
Adjusted Standard Error:		
Unadjusted Standard Error:	0.053	

Crash Reduction Factor (CRF)		
Value:	22.9 (This value indicates a decrease in crashes)	
Adjusted Standard Error:		

Applicability	
Crash Type:	All
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	multi
Road Division Type:	
Speed Limit:	
Area Type:	Rural
Traffic Volume:	2000 to 50000 Annual Average Daily Traffic (AADT)
Time of Day:	
If countermeasure is intersection-based	
Intersection Type:	
Intersection Geometry:	
Traffic Control:	
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details		
Date Range of Data Used:	2003 to 2012	
Municipality:		
State:	FL	

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

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jun-22-2015
Comments:	Before condition shoulder width between 4-12 ft The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a beneift of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggragate dataset used for CMF development.

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