

CMF / CRF Details

CMF ID: 8351

Install w-beam guardrail and concrete barrier

Description: Install w-beam guardrail and concrete barrier

Prior Condition: No roadside barrier

Category: Roadside

Study: <u>Evaluation of the Safety Effectiveness of Installing Roadside Barriers with</u> <u>Different Driver, Vehicle, Weather, and Time of Day Conditions, Park et. al., 2016</u>

Crash Modification Factor (CMF)

Value: 0.92

Adjusted Standard Error:

Unadjusted Standard Error: 0.08

Crash Reduction Factor (CRF)

Value: 8 (This value indicates a decrease in crashes)

Adjusted Standard Error:

Applicability	
Crash Type:	Run off road,Other
Crash Severity:	Fatal, Serious injury, Minor injury
Roadway Types:	Principal Arterial Other Freeways and Expressways
Number of Lanes:	2 to 5
Road Division Type:	
Speed Limit:	50-70 mph
Area Type:	Not specified
Traffic Volume:	35000 to 104600 Annual Average Daily Traffic (AADT)
Time of Day:	All
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 2011	
Municipality:		
State:	FL	

Country:	
Type of Methodology Used:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jan-17-2017
Comments:	CMF is for run off road crashes involving only passenger vehicles

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