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

Star Quality Rating:	[View score details]

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:	

Unadjusted Standard Error:	8

Applicability

Crash Type:	Run off road,Other
Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible 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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