



CMF / CRF Details

CMF ID: 7744

Install shoulder rumble strips

Description:

Prior Condition: Roadways without should rumble strips

Category: Shoulder treatments

Study: [Validation and Application of Highway Safety Manual \(Part D\) in Florida, Abdel-Aty et al., 2014](#)

Star Quality Rating:

Stars

[\[View score details\]](#)

Crash Modification Factor (CMF)

Value: 0.564

Adjusted Standard Error:

Unadjusted Standard Error: 0.182

Crash Reduction Factor (CRF)

Value: 43.6 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error: 18.2

Applicability

Crash Type: Run off road

Crash Severity: All

Roadway Types: Not specified

Number of Lanes: 2

Road Division Type: Undivided

Speed Limit:

Area Type: Rural

Traffic Volume:

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: 2007 to 2010

Municipality:

State: FL

Country: USA

Type of Methodology Used: 1

Sample Size Used:	
Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-08-2016
Comments:	This CMF applies to single-vehicle run-off-road crashes

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