



# CMF / CRF Details

**CMF ID: 10225**

**Change median from paved to grass**

**Description: Change from a paved median to a grass median**

**Prior Condition: Paved median**

**Category: Roadside**

**Study: [Estimation of bicycle crash modification factors \(CMFs\) on urban facilities using zero inflated negative binomial models, Raihan et al., 2019](#)**

<b>Star Quality Rating:</b>	
<b>3 Stars</b>	<a href="#">[View score details]</a>

<b>Crash Modification Factor (CMF)</b>	
<b>Value:</b>	0.72
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	0.1

<b>Crash Reduction Factor (CRF)</b>	
<b>Value:</b>	28 (This value indicates a <b>decrease</b> in crashes)
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	10

## Applicability

**Crash Type:** Vehicle/bicycle

**Crash Severity:** All

**Roadway Types:** Not specified

**Number of Lanes:** 4

**Road Division Type:** Divided by Median

**Speed Limit:** 35-60 MPH

**Area Type:** Urban

**Traffic Volume:** 2300 to 120000 *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:** 2011 to 2014

**Municipality:**

**State:** FL

**Country:** USA

**Type of Methodology Used:** 7

<b>Sample Size Used:</b>	
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<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-07-2019
<b>Comments:</b>	This CMF applies to vehicle-bicycle crashes on urban four-lane divided highways with medians between 10 and 60 feet wide.

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