



# CMF / CRF Details

CMF ID: 7261

**Install centerline and shoulder rumble strips**

**Description:** Milled or rolled rumble strips.

**Prior Condition:** Minimum paved roadway width of 20ft and shoulder width 6ft or greater

**Category:** Roadway

**Study:** [Safety Impacts of a Statewide Centerline Rumble Strip Installation Program, Kay et al., 2015](#)

Star Quality Rating:

8 Stars

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

## Crash Modification Factor (CMF)

**Value:** 0.675

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.005

## Crash Reduction Factor (CRF)

**Value:** 32.5 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.51

**Applicability**

<b>Crash Type:</b>	Angle,Head on,Rear end,Sideswipe,Single vehicle,Other
<b>Crash Severity:</b>	A (serious injury)
<b>Roadway Types:</b>	Principal Arterial Other
<b>Number of Lanes:</b>	2
<b>Road Division Type:</b>	Undivided
<b>Speed Limit:</b>	
<b>Area Type:</b>	Rural
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

***If countermeasure is intersection-based***

<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

**Development Details**

<b>Date Range of Data Used:</b>	2005 to 2013
<b>Municipality:</b>	
<b>State:</b>	MI
<b>Country:</b>	USA

<b>Type of Methodology Used:</b>	2
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-01-2015
<b>Comments:</b>	Target Crashes (A Injury) = angle, head-on, other, rear end, sideswipe opposite, sideswipe same, and single vehicle

---

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

*The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.*