



## CMF / CRF Details

**CMF ID: 5367**

**Widen paved shoulder from 3 ft to 5 ft**

**Description:**

**Prior Condition: Shoulder width 3 ft**

**Category: Shoulder treatments**

**Study:** [\*Safety Effects of Lane Width and Shoulder Width on Two-Lane Rural State Highways in Idaho, Abdel-Rahim and Sonnen, 2012\*](#)

**Star Quality Rating:**



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

### Crash Modification Factor (CMF)

**Value:** 0.93

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Crash Reduction Factor (CRF)

**Value:** 7 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Applicability

**Crash Type:** Single vehicle

**Crash Severity:** All

**Roadway Types:** Not specified

**Number of Lanes:** 2

**Road Division Type:** Undivided

**Speed Limit:**

**Area Type:** Rural

**Traffic Volume:** 186 to 15106 *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:** 1993 to 2010

**Municipality:**

**State:** ID

<b>Country:</b>	USA
<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	5291 Crashes

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Jan-09-2014
<b>Comments:</b>	

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