



## CMF / CRF Details

**CMF ID: 5161**

**Convert 6-foot shoulder to 0-foot shoulder**

**Description: Convert 6-foot shoulder to 0-foot shoulder**

**Prior Condition: *No Prior Condition(s)***

**Category: Shoulder treatments**

**Study: [Prediction of the Expected Safety Performance of Rural Two-Lane Highways, Harwood et al., 2000](#)**

Star Quality Rating:	
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### Crash Modification Factor (CMF)

<b>Value:</b>	1.1
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<b>Adjusted Standard Error:</b>	
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<b>Unadjusted Standard Error:</b>	
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### Crash Reduction Factor (CRF)

<b>Value:</b>	-10 (This value indicates an <b>increase</b> in crashes)
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<b>Adjusted Standard Error:</b>	
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**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

Head on,Run off road,Sideswipe,Single vehicle

**Crash Severity:**

All

**Roadway Types:**

Minor Arterial

**Number of Lanes:**

2

**Road Division Type:**

**Speed Limit:**

**Area Type:**

Rural

**Traffic Volume:**

400 *Annual Average Daily Traffic (AADT)*

**Time of Day:**

*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:**

**Municipality:**

**State:**

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

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	HSM 1st Ed, page 13-11

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