



# CMF / CRF Details

**CMF ID: 539**

**Active work with no lane closure (compared to no work zone)**

**Description:**

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

**Category:** Work zone

**Study:** [Traffic Safety Evaluation of Daytime and Nighttime Work Zones, Ullman et al., 2008](#)

Star Quality Rating:	
4 Stars	

Crash Modification Factor (CMF)	
Value:	1.29
Adjusted Standard Error:	
Unadjusted Standard Error:	0.21

Crash Reduction Factor (CRF)	
Value:	-29 (This value indicates an <b>increase</b> in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	21

## Applicability

**Crash Type:** Nighttime

**Crash Severity:** All

**Roadway Types:** Principal Arterial Other Freeways and Expressways

**Number of Lanes:**

**Road Division Type:**

**Speed Limit:**

**Area Type:** Not specified

**Traffic Volume:**

**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:**

**Country:**

**Type of Methodology Used:** 2

<b>Sample Size Used:</b>	
<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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