



## CMF / CRF Details

**CMF ID: 519**

**Active work with temporary 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:**



### Crash Modification Factor (CMF)

**Value:** 1.61

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.06

### Crash Reduction Factor (CRF)

**Value:** -61 (*This value indicates an **increase** in crashes*)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

6

### 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:**

<b>Country:</b>	
<b>Type of Methodology Used:</b>	Before/after using empirical Bayes or full Bayes
<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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