



# CMF / CRF Details

**CMF ID: 498**

**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](#)

<b>Star Quality Rating:</b>	
	★★★★☆

<b>Crash Modification Factor (CMF)</b>	
<b>Value:</b>	1.6
<b>Adjusted Standard Error:</b>	
<b>Unadjusted Standard Error:</b>	0.15

<b>Crash Reduction Factor (CRF)</b>	
<b>Value:</b>	-60 ( <i>This value indicates an <b>increase</b> in crashes</i> )
<b>Adjusted Standard Error:</b>	

<b>Unadjusted Standard Error:</b>	15
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### Applicability

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	A (serious injury),B (minor injury),C (possible injury)
<b>Roadway Types:</b>	Principal Arterial Other Freeways and Expressways
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Not specified
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	

*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>	
<b>Municipality:</b>	
<b>State:</b>	

<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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