



## CMF / CRF Details

**CMF ID: 499**

**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:	1.34
Adjusted Standard Error:	
Unadjusted Standard Error:	0.15

Crash Reduction Factor (CRF)	
Value:	-34 (This value indicates an <b>increase</b> in crashes)
Adjusted Standard Error:	

<b>Unadjusted Standard Error:</b>	15
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<b>Applicability</b>	
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<b>Crash Type:</b>	Nighttime
<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>	

<i><b>If countermeasure is intersection-based</b></i>	
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<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

<b>Development Details</b>	
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<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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This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

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