



## CMF / CRF Details

**CMF ID: 544**

**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:	
★★★★★	

Crash Modification Factor (CMF)	
Value:	1.31
Adjusted Standard Error:	
Unadjusted Standard Error:	0.03

Crash Reduction Factor (CRF)	
Value:	-31 (This value indicates an <b>increase</b> in crashes)
Adjusted Standard Error:	

**Unadjusted Standard Error:**

3

### Applicability

**Crash Type:**

All

**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>	

---

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

*The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.*