



# CMF / CRF Details

CMF ID: 8816

**Convert High-Occupancy-Vehicle (HOV) lanes to High-Occupancy-Toll (HOT) lanes**

**Description: convert a High-Occupancy-Vehicle (HOV) interstate segment into a High-Occupancy-Toll (HOT) segment**

**Prior Condition: No HOT lanes**

**Category: Roadway**

**Study: [Effects of Using High Occupancy Vehicle Lanes on Safety Performance of Freeways, Abuzwidah and Abdel-Aty, 2017](#)**

Star Quality Rating:

8 Stars

[\[View score details\]](#)

## Crash Modification Factor (CMF)

**Value:** 0.63

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.11

## Crash Reduction Factor (CRF)

**Value:** 37 (This value indicates a **decrease** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 11

**Applicability**

<b>Crash Type:</b>	All
<b>Crash Severity:</b>	0 (property damage only)
<b>Roadway Types:</b>	Principal Arterial Interstate
<b>Number of Lanes:</b>	5
<b>Road Division Type:</b>	Divided by Median
<b>Speed Limit:</b>	
<b>Area Type:</b>	
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	All

***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>	2011 to 2013
<b>Municipality:</b>	Miami
<b>State:</b>	FL
<b>Country:</b>	USA

<b>Type of Methodology Used:</b>	7
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Nov-17-2017
<b>Comments:</b>	CMF applies to HOT lanes only

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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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