



## CMF / CRF Details

**CMF ID: 10208**

**Change from standard sized lanes to undersized lanes**

**Description:** Convert from standard sized lanes (average lane width between 3.25 meters and 3.75 meters) to undersized lanes (average lane width less than 3.25 meters)

**Prior Condition:** Average lane width is between 3.25 meters and 3.75 meters

**Category:** Roadway

**Study:** [Relationship between Lane Width and Safety along Urban Expressways in Shanghai, Wu et al., 2019](#)

**Star Quality Rating:**

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

### Crash Modification Factor (CMF)

**Value:** 2.904

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Crash Reduction Factor (CRF)

**Value:** -190.374 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

**Unadjusted Standard Error:**

### Applicability

**Crash Type:**

All

**Crash Severity:**

All

**Roadway Types:**

Principal Arterial Other Freeways and Expressways

**Number of Lanes:**

4 to 8

**Road Division Type:**

Divided by Median

**Speed Limit:**

80 km/h

**Area Type:**

Urban

**Traffic Volume:**

42785 to 120001 *Average Daily Traffic (ADT)*

**Time of Day:**

All

### *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:**

2010 to 2013

**Municipality:**

Shanghai

<b>State:</b>	
<b>Country:</b>	China
<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>	Dec-07-2019
<b>Comments:</b>	This CMF applies for expressway segments between interchanges.

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