



CMF / CRF Details

CMF ID: 10209

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: 3.111

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: -211.1 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type: Other

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

State:	
Country:	China
Type of Methodology Used:	7
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-07-2019
Comments:	This CMF applies to two-vehicle crashes on expressway segments between interchanges.

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