



CMF / CRF Details

CMF ID: 3250

Installation of bicycle lanes at signalized intersections

Description: Installation of bicycle lanes at signalized intersections

Prior Condition: No bicycle lanes, cyclists shared the roadway with motor vehicles

Category: Bicyclists

Study: [Safety Performance Functions for Bicycle Crashes in New Zealand and Australia, Turner et al., 2011](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 1.01

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: -1 (This value indicates an **increase** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type: Vehicle/bicycle

Crash Severity: All

Roadway Types: All

Number of Lanes:

Road Division Type: All

Speed Limit:

Area Type: Urban and suburban

Traffic Volume:

Time of Day: All

If countermeasure is intersection-based

Intersection Type: Roadway/roadway (not interchange related)

Intersection Geometry: 4-leg

Traffic Control: Signalized

Major Road Traffic Volume:

Minor Road Traffic Volume:

Development Details

Date Range of Data Used:

Municipality: Adelaide, Christchurch

State:

Country:	New Zealand
Type of Methodology Used:	2
Sample Size Used:	Sites

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Jul-15-2011
Comments:	Crash Type: Rear end & sideswipe, same direction. Not much detail is presented regarding the before-after analysis. In addition, the CMF seems to have been calculated as the ratio of observed crashes to expected crashes without considering the variance

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.