



CMF / CRF Details

CMF ID: 5649

Implement automated speed enforcement cameras

Description:

Prior Condition: Segments without automated speed enforcement cameras

Category: Advanced technology and ITS

Study: [*The impacts of speed cameras on road accidents: An application of propensity score matching methods, Li et al., 2013*](#)

Star Quality Rating:	
4 Stars	

Crash Modification Factor (CMF)	
Value:	0.815
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	18.5 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type:	All
Crash Severity:	B (minor injury)
Roadway Types:	Not specified
Number of Lanes:	
Road Division Type:	
Speed Limit:	30 to 40 km/h
Area Type:	
Traffic Volume:	
Time of Day:	Not specified

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:	1999 to 2007
Municipality:	Cheshire, Dorset, Greater Manchester, Lancashire, Leicester, Merseyside, Sussex and West Midlands.
State:	
Country:	UK
Type of Methodology Used:	4

Sample Size Used:	
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Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-08-2014
Comments:	CMF of personal injury collisions at distance to speed camera up to 1 kilometer using propensity score matching method The number of crashes in the after period were not reported in this study, however, they have been recorded as 300 to give 10 points as a benefit of doubt for one or more of the following: (1) number of miles/sites in the reference/treatment group, (2) number of crashes in the references/treatment group, (3) reporting AADTs for the aggregate dataset but not for the disaggregate dataset used for CMF development.

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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