



CMF / CRF Details

CMF ID: 9664

Implement transit signal priority

Description: Transit signal priority (TSP) is a type of transit preferential treatment implemented at signalized intersections to reduce (bus or urban rail) transit delays by providing extended or early green time 3 to transit vehicles in operation.

Prior Condition: No TSP

Category: Transit

Study: [Assessing Effects of Transit Signal Priority on Traffic Safety: Empirical Bayes Before-After Study Using King County, Washington Data, Song and Noyce, 2018](#)

Star Quality Rating:



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

Crash Modification Factor (CMF)

Value: 0.873

Adjusted Standard Error:

Unadjusted Standard Error: 0.018

Crash Reduction Factor (CRF)

Value:	12.7 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	1.8

Applicability	
Crash Type:	All
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	
Road Division Type:	
Speed Limit:	
Area Type:	Urban
Traffic Volume:	
Time of Day:	Not specified

<i>If countermeasure is intersection-based</i>	
Intersection Type:	Roadway/railroad grade crossing
Intersection Geometry:	
Traffic Control:	Signalized
Major Road Traffic Volume:	7268 to 44576 Annual Average Daily Traffic (AADT)
Minor Road Traffic Volume:	

Development Details	
Date Range of Data Used:	2002 to 2015

Municipality:	King County
State:	WA
Country:	USA
Type of Methodology Used:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Oct-27-2018
Comments:	

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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