



CMF / CRF Details

CMF ID: 11030

Install an Adaptive Signal Control Systems (ASCS)

Description: There are three main components in the ASCS: the vehicle detection, local traffic controller(s), and central server.

Prior Condition: Freeways with non-ASCS alternate routes

Category: Advanced technology and ITS

Study: [Assessing the likelihood of secondary crashes on freeways with Adaptive Signal Control System deployed on alternate routes, Salek et al., 2021](#)

Star Quality Rating	
Star Quality Rating:	<input type="text" value="2 Stars"/>

Crash Modification Factor (CMF)	
Value:	0.527
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)	
Value:	47.3 (This value indicates a decrease in crashes)
Adjusted Standard Error:	
Unadjusted Standard Error:	

Applicability

Crash Type: Other

Crash Severity: All

Roadway Types: Principal Arterial Interstate

Number of Lanes:

Road Division Type:

Speed Limit:

Area Type:

Traffic Volume:

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:

Municipality: Charleston

State: SC

Country: USA

Type of Methodology Used: 1

Sample Size Used:	
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Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Mar-16-2022
Comments:	CMF of secondary crashes. The CMF here is for changes in odds ratio.

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