



CMF / CRF Details

CMF ID: 10592

Install a pedestrian hybrid beacon (PHB or HAWK)

Description:

Prior Condition: *No Prior Condition(s)*

Category: Pedestrians

Study: [Evaluation of Pedestrian Hybrid Beacons on Arizona Highways, Fitzpatrick et al., 2019](#)

Star Quality Rating:



Crash Modification Factor (CMF)

Value: 0.755

Adjusted Standard Error:

Unadjusted Standard Error: 0.191

Crash Reduction Factor (CRF)

Value: 24.5 (*This value indicates a **decrease** in crashes*)

Adjusted Standard Error:

Unadjusted Standard Error:	19.1
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Applicability

Crash Type:	Vehicle/pedestrian
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Crash Severity:	K (fatal),A (serious injury),B (minor injury),C (possible injury)
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Roadway Types:	All
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Number of Lanes:	
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Road Division Type:	
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Speed Limit:	
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Area Type:	Urban and suburban
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Traffic Volume:	
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Time of Day:	All
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If countermeasure is intersection-based

Intersection Type:	Roadway/roadway (not interchange related)
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Intersection Geometry:	3-leg,4-leg,Not specified
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Traffic Control:	Not specified
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Major Road Traffic Volume:	5400 to 47627 Annual Average Daily Traffic (AADT)
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Minor Road Traffic Volume:	
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Development Details

Date Range of Data Used:	2007 to 2017
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Municipality:	
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State:	AZ
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Country:	
Type of Methodology Used:	2
Sample Size Used:	

Other Details	
Included in Highway Safety Manual?	No
Date Added to Clearinghouse:	Dec-17-2020
Comments:	The reference group consisted of 101 unsignalized intersections.

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