



CMF / CRF Details

CMF ID: 10605

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: 0.795

Adjusted Standard Error:

Unadjusted Standard Error: 0.067

Crash Reduction Factor (CRF)

Value: 20.5 (*This value indicates a **decrease** in crashes*)

Adjusted Standard Error:

| | |
|-----------------------------------|-----|
| Unadjusted Standard Error: | 6.7 |
|-----------------------------------|-----|

Applicability

| | |
|--------------------|----------|
| Crash Type: | Rear end |
|--------------------|----------|

| | |
|------------------------|-----|
| Crash Severity: | All |
|------------------------|-----|

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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 |
|---------------------|-----|

If countermeasure is intersection-based

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|---------------------------|---|
| Intersection Type: | Roadway/roadway (not interchange related) |
|---------------------------|---|

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|-------------------------------|---------------------------|
| Intersection Geometry: | 3-leg,4-leg,Not specified |
|-------------------------------|---------------------------|

| | |
|-------------------------|---------------|
| 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: | |
|-----------------------------------|--|

Development Details

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|---------------------------------|--------------|
| Date Range of Data Used: | 2007 to 2017 |
|---------------------------------|--------------|

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|----------------------|--|
| Municipality: | |
|----------------------|--|

| | |
|---------------|----|
| State: | AZ |
|---------------|----|

| | |
|----------------------------------|---|
| 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 and 56 signalized intersections. |

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