

CMF Clearinghouse Demonstration Slides

Daniel Carter

CMF CH webinar, 12/12/17

More terms = narrower results

Search Results

There were 385 CMFs returned for your search on "**edgeline**". [\[modify your search\]](#).

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Search Results

There were 54 CMFs returned for your search on "**edgeline width**". [\[modify your search\]](#).

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Looking for Ideas for Countermeasures



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Upcoming Webinar

The Right Fit: Finding and Applying the Right CMF for the Job

December 12, 2:00-3:30pm Eastern

[Click here to register!](#)

1 2 3 4 5

A crash modification factor (CMF) is used to compute the expected number of crashes after implementing a [countermeasure](#) on a road or intersection. The Crash Modification Factors Clearinghouse provides a searchable online database of CMFs along with guidance and resources on [using CMFs](#) in road safety practice. It also provides guidance to

Recently Added CMFs

[Install bicycle lanes](#)

CMF: 0.77

CRF: 23

Crash type:


[Convert diamond interchange to Diverging Diamond Interchange \(DDI\) or Double Crossover Diamond \(DCD\)](#)

[Install w-beam guardrail and concrete barrier](#)

CMF: 0.92

CRF: 8

Search Results

There are  6142 CMFs returned for your search. [\[modify your search\]](#).

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▶ Star Quality Rating

- 1 (276)
- 2 (936)
- 3 (3111)
- 4 (1414)
- 5 (266)

▶ Country

- U.S. & Canada (5453)
- International (689)

▶ Crash Type

▶ Crash Severity

Results Control: [Collapse All](#) | [Expand All](#)

Click on the links below to expand individual categories.

- ▶ Category: Access management (417)
- ▶ Category: Advanced technology and ITS (422)
- ▶ Category: Alignment (108)
- ▶ Category: Bicyclists (179)
- ▶ Category: Delineation (201)
- ▶ Category: Highway lighting (90)

- U.S. & Canada (5453)
- International (689)

▼ Crash Type

- All (2648)
- Angle (367)
- Cross median (159)
- Day time (33)
- Dry weather (272)
- Fixed object (498)
- Head on (647)
- Left turn (143)
- Multiple vehicle (44)
- Nighttime (191)
- Non-intersection (0)
- Parking related (16)
- Rear end (321)
- Rear to rear (25)
- Right turn (49)
- Run off road (1107)
- Sideswipe (633)
- Single vehicle (225)
- Speed related (59)
- Truck related (52)
- Vehicle/bicycle (159)
- Vehicle/pedestrian (141)
- Vehicle/animal (1)
- Wet road (252)
- Other (400)
- Not specified (18)

- ▶ Category: Bicyclists (179)
- ▶ Category: Delineation (201)
- ▶ Category: Highway lighting (90)
- ▶ Category: Interchange design (88)
- ▶ Category: Intersection geometry (637)
- ▶ Category: Intersection traffic control (756)
- ▶ Category: On-street parking (42)
- ▶ Category: Pedestrians (52)
- ▶ Category: Railroad grade crossings (14)
- ▶ Category: Roadside (396)
- ▶ Category: Roadway (1108)
- ▶ Category: Shoulder treatments (1188)
- ▶ Category: Signs (168)

Search Results

There  871 CMFs with star ratings returned for this filter selection. [\[modify your search\]](#)

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Results Control: [Collapse All](#) | [Expand All](#)

Click on the links below to expand individual categories.

- ▶ **Category: Access management** (107)
- ▶ **Category: Advanced technology and ITS** (11)
- ▶ **Category: Bicyclists** (1)
- ▶ **Category: Delineation** (9)

▶ Star Quality Rating

▶ Country

▼ Crash Type

- All (0)
- Angle (87)
- Cross median (159)
- Day time (5)
- Dry weather (5)

▼ Category: Signs (17)

▼ Subcategory: None (17)

▼ Countermeasure: Advance street name signs

Compare	CMF	CRF(%)	Quality	Crash Type	Crash Severity	Area Type	Reference	Comments
<input type="checkbox"/>	0.897	10.3	★★★★☆	Sideswipe	All	All	Gross, Lefler, Lyon, and Eccles, 2010	

[Compare](#)

[Reset Compare](#)

**NOTE: You can compare CMFs across countermeasures, subcategories, and categories.*

Other CMFs from the Gross et al. study

CMFs Associated With This Study

Category: Signs

Countermeasure: Advance street name signs

CMF	CRF(%)	Quality	Crash Type	Crash Severity	Roadway Type	Area Type
0.984	1.6	★★★★☆	All	All	Not Specified	All
0.99	1	★★★★☆	All	Fatal, Serious injury, Minor injury	Not Specified	All
1.01	-1	★★★★☆	All	All	Not Specified	All
1.01	-1	★★★★☆	Rear end	All	Not Specified	All
0.897	10.3	★★★★☆	Sideswipe	All	Not Specified	All

Selecting an appropriate CMF



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Countermeasure Service Life and Crash Severity Costs

Improve your benefit cost analysis by finding out what states are using for the service life estimates of various countermeasures and costs of crashes by severity.

1 2 3 4 5

A crash modification factor (CMF) is used to compute the expected number of crashes

Read All CMF

Search Results

There were 341 CMFs returned for your search on "**left turn**". [\[modify your search\]](#).

Having trouble deciding between similar CMFs? Use our [comparison tool](#) or [Check out our FAQs](#).

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▶ Star Quality Rating

- 1 (25)
- 2 (83)
- 3 (114)
- 4 (84)
- 5 (25)

▶ Country

- U.S. & Canada (324)
- International (17)

▶ Crash Type

▶ Crash Severity

▶ Roadway Type

▶ Area Type

Results Control: [Collapse All](#) | [Expand All](#)

Click on the links below to expand individual categories.

- ▶ Category: Access management (33)
- ▶ Category: Advanced technology and ITS (1)
- ▶ Category: Bicyclists (3)
- ▶ Category: Intersection geometry (99)
- ▶ Category: Intersection traffic control (150)
- ▶ Category: On-street parking (6)
- ▶ Category: Roadway (49)

▼ Countermeasure: Provide a left-turn lane on one major-road approach

<input type="checkbox"/> Compare	CMF	CRF(%)	Quality	Crash Type	Crash Severity	Area Type	Reference	Comments
<input type="checkbox"/>	0.72 [B]	28	★★★★★	All	All	Rural	Harwood et al., 2002	Countermeasure name changed to match ... [read more]
<input checked="" type="checkbox"/>	0.73 [B]	27	★★★★★	All	All	Urban	Harwood et al., 2002	Countermeasure name changed to match ... [read more]
<input type="checkbox"/>	0.76 [B]	24	★★★★★	All	All	Urban	Harwood et al., 2002	Countermeasure name changed to match ... [read more]

Countermeasure Name	Provide a left-turn lane on one major-road approach	Provide a left-turn lane on one major-road approach
CMF ID	261	263
CMF	0.73	0.76
Study Reference	Harwood et al., 2002	Harwood et al., 2002
Unadjusted Standard Error CMF	0.03	0.03
CMFunction		
Star Rating	★★★★★	★★★★★
Crash Type	All	All
Crash Severity	All	All
Crash Time of Day		
Area Type	Urban	Urban
Road Division Type		
Road Type	Not Specified	Not Specified
Number of Lanes		
Intersection Type	Roadway/roadway (not interchange related)	Roadway/roadway (not interchange related)
Intersection Geometry	4-leg	4-leg
Traffic Control	<i>Stop-controlled</i>	<i>Signalized</i>
Speed Limit		
	Before/after using empirical Bayes or full	Before/after using empirical Bayes or full

Dealing with too many search results

Search Results

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▶ Star Quality Rating

- 1 (25)
- 2 (83)
- 3 (114)
- 4 (84)
- 5 (25)

▶ Country

- U.S. & Canada (324)
- International (17)

▶ Crash Type

▶ Crash Severity

Results Control: [Collapse All](#) | [Expand All](#)

Click on the links below to expand individual categories.

- ▶ Category: Access management (33)
- ▶ Category: Advanced technology and ITS (1)
- ▶ Category: Bicyclists (3)
- ▶ Category: Intersection geometry (99)
- ▶ Category: Intersection traffic control (150)
- ▶ Category: On-street parking (6)

▼ Crash Severity

- All (255)
- K(fatal) (53)
- A(serious injury) (65)
- B(minor injury) (65)
- C(possible injury) (65)
- O(property damage only) (18)
- Not specified (2)

► Roadway Type

66 results

▼ Crash Type

- All (198)
- Angle (38)
- Cross median (0)
- Day time (0)
- Dry weather (0)
- Fixed object (4)
- Head on (16)
- Left turn (37)
- Multiple vehicle (0)
- Nighttime (0)
- Non-intersection (0)
- Parking related (0)
- Rear end (40)
- Rear to rear (3)
- Right turn (3)

37 results

► Star Quality Rating

- 1 (25)
- 2 (83)
- 3 (114)
- 4 (84)
- 5 (25)

109 results