



CMF / CRF Details

CMF ID: 10976

Install Edge Lane Road (ELR)

Description: An edge lane road (ELR) belongs to a class of roadways that supports two-way automobile traffic within a single center lane and accommodates vulnerable road users (VRUs), such as bicyclists or pedestrians, in the edge lanes on either side. Automobiles may use the edge lanes to pass approaching vehicles after yielding to any VRUs there. ELRs are alternatively referred to as advisory bike lanes (ABLs), advisory shoulders, or dashed bicycle lanes. An ELR has no centerline. The center lane is separated from the edge lanes with broken lane markings. The broken lane markings indicate a permissive condition allowing motor vehicles to move into the edge lanes after yielding to any VRUs there.

Prior Condition: Two-Lane Undivided Road

Category: Roadway

Study: [*Safety Considerations for All Road Users on Edge Lane Roads, Williams et al., 2021*](#)

Star Quality Rating:



Crash Modification Factor (CMF)

Value:

0.56

Adjusted Standard Error:

Unadjusted Standard Error:

Crash Reduction Factor (CRF)

Value: 44 (This value indicates a **decrease** in crashes)

Adjusted Standard Error:

Unadjusted Standard Error:

Applicability

Crash Type: All

Crash Severity: All

Roadway Types: Principal Arterial Other

Number of Lanes: 2

Road Division Type: Undivided

Speed Limit:

Area Type: All

Traffic Volume: 200 to 4349 Annual Average Daily Traffic (AADT)

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: | 2005 to 2019 |
| Municipality: | |
| State: | CO, ID, IN, ME, MA, MN, VT |
| Country: | |
| Type of Methodology Used: | 2 |
| Sample Size Used: | |

| Other Details | |
|---|-------------|
| Included in Highway Safety Manual? | No |
| Date Added to Clearinghouse: | Aug-11-2021 |
| 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

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.