

Center for Motor Vehicle Safety PPOP

What are our priorities?

The National Institute for Occupational Safety and Health (NIOSH) Center for Motor Vehicle Safety (CMVS) conducts research and develops strategies to prevent work-related motor vehicle crashes and resulting injuries.

CMVS work emphasizes these industry sectors:

Oil and Gas Extraction; Public Safety; Transportation, Warehousing, and Utilities; and Wholesale and Retail Trade. CMVS researchers collaborate with partners in industry, labor, professional and trade associations, government agencies, and academia.

The CMVS prioritizes motor vehicle safety for these groups:

- Truck drivers.
- Drivers in other high-risk jobs (e.g., emergency medical services (EMS) workers & firefighters, law enforcement officers, oil & gas workers).
- Drivers of light vehicles (passenger cars, SUVs, pickup trucks).

What do we do?

- Strengthen understanding of how risk factors contribute to work-related motor vehicle crashes and resulting injuries.
- Develop and evaluate the effectiveness of engineering and technology-based safety interventions.
- Evaluate the effectiveness of motor vehicle safety management programs and practices.
- Promote the adoption of evidence-based technologies and practices by employers, workers, and others.

What have we accomplished?

- Developed the CMVS [strategic plan](#) for 2020-2029 and began implementing the plan with partners.
- Published [infographic](#) on preventing struck-by passing vehicle events among law enforcement officers. Recommendations include maintaining situational awareness, wearing a high visibility safety vest, following agency standard operating procedures, and understanding the incident command structure.
- Hosted a [webinar](#) on marijuana and driving safety for 375 attendees from industry, healthcare, and academia.
- Contributed to a U.S. Department of Transportation [report to Congress](#) on potential impacts of driving automation systems on workers in long-haul trucking and bus transit.
- Published [NIOSH Science Blog](#) for employers about how to choose the “right” worker fatigue monitoring and detection technologies. A few considerations for employers include the purpose and intended outcome for using the technology, the validity of the device, and if workers will accept the new technology.
- Contributed content to a West Virginia University safe driving curriculum that was used to train 427 oil and gas workers.

What's next?

- Publish new web-based guidance on the elements of an effective motor vehicle safety program.
- Publish “[CDC Features](#)” articles on in-vehicle monitoring systems and marijuana and driving.
- Publish results of a survey of oil and gas workers examining the relationships between driving behaviors and sleep, commuting, working hours, and employer policies.
- Publish findings from a lab simulation of a curve speed warning system for fire trucks.

At-A-Glance

The Center for Motor Vehicle Safety (CMVS) seeks to ensure that all workers exposed to road traffic hazards while on the job have protection from the risk of motor vehicle crashes and resulting injuries. This snapshot shows recent accomplishments and upcoming activities.

Publication Spotlight

Prevent Struck-by Incidents at Crash Scenes

More than 200 law enforcement officers died due to struck-by incidents from 2005-2019. 12% of motor vehicle related officer deaths. You can lower your risk of being struck by a passing vehicle while outside the patrol vehicle.



1 MAINTAIN situational awareness
 • Keep your head on a swivel
 • Walk within traffic control zone
 • Avoid the gap between vehicles
 • Don't turn your back to traffic
 • Always have an escape plan

2 WEAR your ANSI-approved tearaway high visibility safety vest any time you are exposed to vehicle traffic or working a crash scene

3 FOLLOW your agency's standard operating procedures (SOP) on temporary traffic control zones

4 UNDERSTAND the incident command structure and work collaboratively with other responders

Source: National Law Enforcement Officers Memorial Fund (NLEOMF)

CDC **NIOSH** **NIOSH Science Blog** **NIOSH Research** **NIOSH Publications** **NIOSH Training** **NIOSH Website**

Access quality reports involving officer motor vehicle deaths: www.cdc.gov/niosh/ncj

Find more law enforcement motor vehicle resources: www.cdc.gov/niosh/topics/ncj

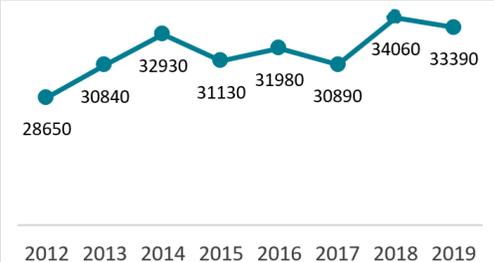
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Motor vehicle crash fatality rate for all industries (per 100,000 workers)



Source: Bureau of Labor Statistics, Census of Fatal Occupational Injuries (CFOI)

Nonfatal days-away-from-work injuries due to motor vehicle crashes,* private industry



*Crashes on public roadways, vehicle occupants only
 Source: Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses (SOII)



Centers for Disease Control and Prevention
 National Institute for Occupational Safety and Health

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To learn more, visit www.cdc.gov/niosh/motorvehicle/ September 2021