

Motor Vehicle Incident Metrics

1. Incident Rate based on Number of Vehicles Operated	
Total number of incidents multiplied by a constant of 100, divided by the total number of vehicles operated within the organization's fleet.	$\frac{\text{Number of Incidents} \times 100}{\text{Total \# of Vehicles Operated}}$
2. Incident Rate based on Vehicle Mileage	
Total number of incidents multiplied by a constant of 1,000,000, divided by the actual mileage driven.	$\frac{\text{Number of Incidents} \times 1,000,000}{\text{Actual Mileage Driven}}$
3. Injury Incident Rate based on Vehicle Mileage	
Total number of incidents that result in an injury multiplied by a constant of 1,000,000, divided by the actual mileage driven.	$\frac{\text{Number of Incidents with Injury} \times 1,000,000}{\text{Actual Mileage Driven}}$
4. Average Cost per Motor Vehicle Incident	
Total cost associated with all motor vehicle incidents, divided by the total number of motor vehicle incidents that incurred a loss cost.	$\frac{\text{Total Vehicle Incident Costs}}{\text{Total \# of Incidents (w/ Loss Incurred)}}$
5. Vehicle Loss Cost per Million Miles Driven	
Total cost associated with all motor vehicle incidents multiplied by a constant of 1,000,000, divided by the actual mileage driven.	$\frac{\text{Total Vehicle Incident Costs} \times 1,000,000}{\text{Actual Mileage Driven}}$
6. Motor Vehicle Incident Average Injury Cost	
Total injury cost associated with all motor vehicle incidents, divided by the total number of motor vehicle incidents that incurred an injury loss cost.	$\frac{\text{Total Vehicle Incident Injury Costs}}{\text{Total \# of Incidents (w/ Injury Costs)}}$
7. Motor Vehicle Passenger Injury Incident Rate	
Total number of vehicle incidents resulting in passenger injury multiplied by a constant of 1,000,000, divided by the number of passengers carried.	$\frac{\# \text{ of Incidents with Passngr Injury} \times 1,000,000}{\text{Total \# of Passengers Carried}}$
8. Passenger Injury Rate per Million Miles Driven	
Total number of passenger injuries multiplied by a constant of 1,000,000, divided by the actual mileage driven.	$\frac{\# \text{ of Passenger Injuries} \times 1,000,000}{\text{Actual Mileage Driven}}$
9. Motor Vehicle Injury Rates based on Work Hours	
Total number of incidents multiplied by a constant of 200,000, divided by the total number of hours worked. This metric should be considered by organizations whose vehicle operators have high levels of exposure to driving based on hours of exposure. The constant 200,000 standardizes the rate of vehicle incidents per 100 full-time equivalent workers.	$\frac{\text{Number of Incidents} \times 200,000}{\text{Number of Hours Worked (Driven)}}$
10. Incident Rate based on Service Activity (Deliveries)	
Total number of incidents multiplied by 10,000 (or other appropriate multiplier), divided by the number of service activities. Service activity incidents rates are applicable as a basis for safety performance when operations pose injury risks other than those associated with driving, such as Public Works activities.	$\frac{\text{Number of Incidents} \times 10,000}{\text{Number of Deliveries}}$
11. Incident Rate based on Service Activity (Loads)	
Total number of incidents multiplied by 10,000 (or other appropriate multiplier), divided by the number of service activities. Service activity incidents rates are applicable as a basis for safety performance when operations pose injury risks other than those associated with driving, such as Public Works activities.	$\frac{\text{Number of Incidents} \times 10,000}{\text{Number of Loads}}$

