



2022



Traffic Safety Facts 2022

A Compilation of Motor Vehicle Traffic Crash Data



U.S. Department of Transportation
**National Highway Traffic Safety
Administration**



2022 National Statistics

Police-Reported Motor Vehicle Traffic Crashes

Fatal.....	39,221
Injury.....	1,664,598
Property-Damage-Only.....	4,226,677
Total.....	5,930,496

Traffic Crash Victims

	Killed	Injured
Occupants.....	27,344	2,169,123
Drivers.....	20,908	1,620,915
Passengers.....	6,393	547,538
Unknown.....	43	670
Motorcyclists.....	6,218	82,687
Nonoccupants.....	8,952	130,961
Pedestrians.....	7,522	67,336
Pedalcyclists.....	1,105	46,195
Other/Unknown.....	325	17,430
Total.....	42,514	2,382,771

Other National Statistics

Vehicle Miles Traveled.....	3,196,191,000,000
Population.....	333,287,557
Registered Vehicles.....	303,528,576
Licensed Drivers.....	235,086,153
Economic Cost of Traffic Crashes (2019) (Estimate for Reported and Unreported Crashes).....	\$340 billion

National Rates: Fatalities

Fatalities per 100 Million Vehicle Miles Traveled.....	1.33
Fatalities per 100,000 Population.....	12.76
Fatalities per 100,000 Registered Vehicles.....	14.01
Fatalities per 100,000 Licensed Drivers.....	18.08

National Rates: People Injured

People Injured per 100 Million Vehicle Miles Traveled.....	75
People Injured per 100,000 Population.....	715
People Injured per 100,000 Registered Vehicles.....	785
People Injured per 100,000 Licensed Drivers.....	1,014

Sources: Crashes, Fatalities, Injuries, and Costs – National Highway Traffic Safety Administration

Population – Census Bureau

Vehicle Miles Traveled (VMT) – Federal Highway Administration

Registered Vehicles – FHWA and Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co.



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A Compilation of Motor Vehicle Traffic Crash Data

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For More Information:

Motor vehicle traffic crash data are available from the National Center for Statistics and Analysis (NCSA), NSA-230. NCSA can be contacted at NCSARequests@dot.gov or 800-934-8517. NCSA programs can be found at www.nhtsa.gov/data. Additional data tools, such as the State Traffic Safety Information (STSI), Fatality and Injury Reporting System Tool (FIRST), fact sheet data visualizations, and more can be found at <https://cdan.dot.gov/>. To report a vehicle safety-related problem or to inquire about safety information, contact the Vehicle Safety Hotline at 888-327-4236 or www.nhtsa.gov/report-a-safety-problem.

Fact sheets available from NCSA are Alcohol-Impaired Driving, Bicyclists and Other Cyclists, Children, Large Trucks, Motorcycles, Occupant Protection in Passenger Vehicles, Older Population, Passenger Vehicles, Pedestrians, Race and Ethnicity, Rural/Urban Traffic Fatalities, School-Transportation-Related Traffic Crashes, Speeding, State Alcohol-Impaired-Driving Estimates, State Traffic Data, Summary of Motor Vehicle Traffic Crashes, and Young Drivers. The fact sheets and annual Traffic Safety Facts reports can be found at <https://crashstats.nhtsa.dot.gov/>.

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Glossary

alcohol involvement

NHTSA defines a fatal crash as alcohol-related or alcohol-involved if at least one driver or nonoccupant (such as a pedestrian or pedalcyclist) involved in the crash is determined to have had a blood alcohol concentration (BAC) of .01 grams per deciliter (g/dL) or higher. Thus, any fatality that occurs in an alcohol-related crash is considered an alcohol-related fatality.

NHTSA defines a nonfatal crash as alcohol-related or alcohol-involved if police indicate on the police crash report that there is evidence of alcohol present. The code does not necessarily mean that a driver or nonoccupant was tested for alcohol.

The terms “alcohol-related” and “alcohol-involved” do not indicate that a crash or fatality was caused by the presence of alcohol.

alcohol-impaired-driving crashes

Crashes that involve at least one driver or motorcycle rider (operator) with a BAC of .08 g/dL or higher. Thus, any crash involving a driver or motorcycle rider with a BAC of .08 g/dL or higher is considered an alcohol-impaired-driving crash.

alcohol-impaired-driving fatalities

Fatalities in crashes that involve at least one driver or motorcycle rider (operator) with a BAC of .08 g/dL or higher. Thus, any fatality occurring in a crash involving a driver or motorcycle rider with a BAC of .08 g/dL or higher is considered an alcohol-impaired-driving fatality.

blood alcohol concentration

BAC is measured as the weight of alcohol in a volume of blood (g/dL). A positive BAC level (.01 g/dL or higher) indicates that alcohol was consumed by the person tested; a BAC level of .08 g/dL or more indicates that the person was alcohol-impaired.

body type

Detailed type of motor vehicle within a vehicle type.

bus

Any motor vehicle designed primarily to transport large groups of nine or more people, including the driver. Includes school buses, inter-city buses, and transit buses.

combination truck

A truck tractor not pulling a trailer; a tractor pulling at least one full- or semi-trailer; or a single-unit truck pulling at least one trailer.

crash

An event that produces injury and/or property damage, involves a motor vehicle in-transport, and occurs on a trafficway or while the vehicle is still in motion after running off the trafficway.

crash severity

1. ***fatal crash***. A police-reported crash involving a motor vehicle in-transport on a trafficway in which at least one person dies within 30 days of the crash.
2. ***injury crash***. A police-reported crash that involves a motor vehicle in-transport on a trafficway in which no one died but at least one person was reported to have: (1) an incapacitating injury; (2) a visible but not incapacitating injury; (3) a possible, not visible injury; or (4) an injury of unknown severity.
3. ***property-damage-only crash***. A police-reported crash involving a motor vehicle in-transport on a trafficway in which no one involved in the crash suffered any injuries.

crash type

Single-vehicle or multi-vehicle crash.

day

From 6 a.m. to 5:59 p.m.

Glossary

driver

An occupant of a vehicle who is in physical control of a motor vehicle in-transport, or for an out-of-control vehicle, an occupant who was in control until control was lost.

ejection

Refers to an occupant being totally or partially thrown from the vehicle because of an impact or rollover.

First Harmful Event

The first event during a crash that caused injury or property damage.

fixed object

Stationary structures or substantial vegetation attached to the terrain.

gross vehicle weight rating

The GVWR is the maximum rated capacity of a vehicle, including the weight of the base vehicle, all added equipment, driver and passengers, and all cargo loaded into or on the vehicle. Actual weight may be less than or greater than GVWR.

impact point

The first impact point that produced personal injury or property damage, regardless of First or Most Harmful Event.

injury severity

The police-reported injury severity of the person (occupant, pedestrian, or pedalcyclist).

1. Killed (Fatal)
2. Injured (Incapacitating injury, evident injury but not incapacitating, complaint of injury, or injured, severity unknown)
3. No injury

jackknife

Jackknife can occur at any time during the crash sequence. In this report, jackknifing is restricted to a truck tractor pulling a trailing unit in which the trailing unit and the pulling vehicle rotate with respect to each other.

junction

Area formed by the connection of two roadways, including intersections, interchange areas, and entrance/exit ramps.

land use

The crash location (urban or rural).

large trucks

Trucks over 10,000 pounds GVWR, including single-unit trucks and truck tractors.

light trucks

Trucks of 10,000 pounds GVWR or less, including pickups, vans, truck-based station wagons, and SUVs.

manner of collision

A classification for crashes in which the First Harmful Event was a collision between two motor vehicles in-transport and is described as one of the following:

angle. Collisions that are not head-on, rear-end, rear-to-rear, or sideswipe.

head-on. A collision where the front of one vehicle collides with the front of another vehicle while the two are traveling in opposite directions.

rear-end. A collision in which one vehicle collides with the rear of another vehicle.

sideswipe. A collision in which the sides of both vehicles sustain minimal engagements.

Most Harmful Event

The event during a crash for a particular vehicle that is judged to have produced the greatest personal injury or property damage.

motor vehicle in-transport

A motor vehicle in motion on the trafficway or any other motor vehicle on the roadway, including stalled, disabled, or abandoned vehicles.

Glossary

motorcycle

A 2- or 3-wheeled motor vehicle designed to transport one or two people, including motor-scooters, minibikes, and mopeds.

motorcycle rider

The operator (driver) of a motorcycle.

motorcyclist

Any person riding on a motorcycle, including the motorcycle rider (operator) and any passenger (a person riding on, but not in control of, the motorcycle).

night

From 6 p.m. to 5:59 a.m.

noncollision

A class of crash in which the First Harmful Event does not involve a collision with a fixed object, nonfixed object, or a motor vehicle. This includes overturn, fire/explosion, fall from a vehicle, and injuries in a vehicle.

nonoccupant

Any person who is not an occupant of a motor vehicle in-transport and includes the following.

1. Pedestrians
2. Pedalcyclists
3. Occupants of parked motor vehicles
4. Others such as joggers, skateboard riders, people riding on animals, and people riding in animal-drawn conveyances

nonoccupant location

The location of nonoccupants at time of impact. Intersection locations are coded only if nonoccupants were struck in the area formed by a junction of two or more trafficways. Non-intersection location may include nonoccupants struck on a junction of a driveway/alley access and a named trafficway. Nonoccupants who are occupants of motor vehicles not in-transport are coded with respect to the location of the vehicle.

objects not fixed

Objects that are movable or moving but are not motor vehicles. Includes pedestrians, pedalcyclists, animals, or trains (e.g., spilled cargo in roadway).

occupant

Any person who is in or on a motor vehicle in-transport. Includes the driver, passengers, and any person riding on the exterior of a motor vehicle.

other vehicle

Consists of the following types of vehicles.

1. Large limousine (more than 4 side doors or stretched chassis)
2. 3-wheel automobile or automobile derivative
3. Van-based motorhome
4. Light-truck-based motorhome (chassis-mounted)
5. Large-truck-based motorhome
6. ATV (all-terrain vehicle, including dune/swamp buggy) and ATC (all-terrain cycle)
7. Snowmobile
8. Farm equipment other than trucks
9. Construction equipment other than trucks (includes graders)
10. Other type vehicle (includes go-cart, forklift, city streetsweeper).

passenger

Any occupant of a motor vehicle who is not a driver.

passenger car

Motor vehicles used primarily for carrying passengers, including convertibles, sedans, and station wagons.

pedalcyclist

A person on a vehicle powered solely by pedals. Starting in 2022, pedalcyclists also include a person on a vehicle powered by a combination of pedals and motors.

Glossary

pedestrian

Any person not in or upon a motor vehicle or other vehicle.

restraint use

The occupant's use of available vehicle restraints, including lap belt, shoulder belt, or automatic belt.

roadway

That part of a trafficway designed, improved, and ordinarily used for motor vehicle travel.

roadway function class

The classification describing the character of service the street or highway. Includes the following:

interstates. Limited access divided facilities of at least four lanes designated by the FHWA as part of the Interstate System.

other freeways and expressways. All urban principal arterials with limited control of access not on the Interstate System.

other principal arterials. Major streets or highways, many with multi-lane or freeway design, serving high-volume traffic corridor movements that connect major generators of travel.

minor arterials. Streets and highways linking cities and larger towns in rural areas in distributing trips to small geographic areas in urban areas (not penetrating identifiable neighborhoods).

collectors. In rural areas, routes serving intra-county, rather than statewide travel. In urban areas streets providing direct access to neighborhoods as well as direct access to arterials.

local streets and roads. Streets whose primary purpose is feeding higher order systems, providing direct access with little or no through traffic.

rollover

Any vehicle rotation of 90° or more about any true longitudinal or lateral axis. Includes rollovers occurring as a First Harmful Event or subsequent event.

seating position

The location of the occupants in the vehicle. More than one can be assigned the same seat position; however, this is allowed only when a person is sitting on someone's lap.

school-bus-related crash

Any crash in which a vehicle, regardless of body design, used as a school bus is directly or indirectly involved, such as a crash involving school children alighting from a vehicle.

single-unit truck

A medium or heavy truck in which the engine, cab, drive train, and cargo area are all on one chassis.

trafficway

Any road, street, or highway open to the public as a matter of right or custom for moving people or property from one place to another.

vehicle

See *motor vehicle in-transport*.

vehicle identification number

VIN is a unique combination of 17 alphanumeric characters assigned to a specific motor vehicle designated by the manufacturer.

vehicle miles traveled

VMT is a measurement of the total distance traveled by vehicles on a specific segment of roadway within a specific time frame. Annual VMT is calculated by multiplying the estimated mean traffic volume (Annual Average Daily Traffic) for a roadway segment by the roadway segment length in miles and the number of days in the year.

Glossary

vehicle type

A series of motor vehicle body types that have been grouped together because of their design similarities. The principal vehicle types used in this report are passenger car, light truck, large truck, motorcycle, bus, and other vehicle. See the definition of each of the vehicle types in this glossary.

vPIC

The NHTSA Product Information Catalog and Vehicle Listing (vPIC) is a consolidated platform that presents data collected within the manufacturer reported data from 49 CFR Parts 512 – 595 for use in a variety of modern tools. NHTSA’s vPIC platform is intended to serve as a centralized source for basic VIN decoding, Manufacturer Information Database (MID), Manufacturer Equipment Plant Identification and associated data.

weekday

From 6 a.m. Monday to 5:59 p.m. Friday.

weekend

From 6 p.m. Friday to 5:59 a.m. Monday.

Introduction

In this annual report, *Traffic Safety Facts 2022: A Compilation of Motor Vehicle Traffic Crash Data*, the National Highway Traffic Safety Administration presents descriptive statistics about traffic crashes of all severities, from those that result in property damage to those that result in the loss of human life.

Information from three of NHTSA's primary data systems has been combined to create a single source for motor vehicle traffic crash statistics. The first data system, the Fatality Analysis Reporting System (FARS), is probably the better known of the three sources. Established in 1975, FARS contains data on the most severe traffic crashes, those in which someone was killed. The second source is the National Automotive Sampling System General Estimates System (NASS GES), which began operation in 1988 and ended in 2015. NASS GES contains data from a nationally representative sample of police-reported crashes of all severities, including those that resulted in death, injury, or property damage. The third source is the Crash Report Sampling System (CRSS), which replaced NASS GES in 2016. CRSS is the redesigned nationally representative sample of police-reported traffic crashes.

FARS, GES, and CRSS were designed and developed by NHTSA's National Center for Statistics and Analysis (NCSA) to provide an overall measure of highway safety, to help identify traffic safety problems, to suggest solutions, and to help provide an objective basis on which to evaluate the effectiveness of motor vehicle safety standards and highway safety initiatives. Data from these systems is used to answer requests for information from the international and national highway traffic safety communities, including State and local governments, Congress, Federal agencies, research organizations, industry, the media, and the public.

FARS Operations

The Fatality Analysis Reporting System (FARS) became operational in 1975 and contains data on a census of fatal motor vehicle traffic crashes in the 50 States, the District of Columbia, and Puerto Rico. To be included in FARS, a traffic crash must involve a motor vehicle traveling on a trafficway customarily open to the public and must result in the death of an occupant of a vehicle or a nonoccupant within 30 days of the crash.

NHTSA has a cooperative agreement with an agency in each State's government to provide information on all qualifying fatal traffic crashes in the State. These agreements are managed by the NCSA State Data System, Office of Data Acquisition. Trained State employees, called FARS analysts, are responsible for gathering, translating, and transmitting their State's data to NCSA's standard format. The number of analysts varies by State, depending on the number of fatal crashes and the ease of obtaining data.

FARS data are obtained solely from the States' existing documents.

Police Crash Reports (PCRs)	Death Certificates
State Vehicle Registration Files	Coroner/Medical Examiner Reports
State Driver Licensing Files	Emergency Medical Service Reports
State Highway Department Data	Other State Records
Vital Statistics	

From these documents FARS analysts code more than 140 FARS data elements. The specific data elements may be modified slightly each year to conform to changing user needs, vehicle characteristics, and highway safety emphasis areas. The data collected in FARS does not include any personal identifying information such as names, addresses, or social security numbers. Thus, any data kept in FARS files and made available to the public fully conforms to the Privacy Act.

Each FARS analyst enters data into a local microcomputer data file, and daily updates are sent to NHTSA's central computer database. Data are automatically checked when entered for acceptable range values and for consistency, enabling the analyst to make corrections immediately. Several programs continually monitor and improve the completeness and accuracy of the data. The 2022 FARS data file used for the statistics in this report was created in February 2024; however, the 2022 FARS file will officially close later in 2024. This additional time provides the opportunity for submission of important variable data requiring outside sources, which may lead to changes in the final counts. The updated final counts for 2021 are reflected in this report. The updated final counts for 2022 will be reflected in the 2023 annual report.

GES Operations

Data from the National Automotive Sampling System (NASS) General Estimates System (GES) was obtained from a nationally representative probability sample selected from all police-reported crashes. The NASS GES began operation in 1988 and ended in 2015. For a crash to be eligible for the GES sample, a PCR must be completed for the crash, and the crash must involve at least one motor vehicle traveling on a trafficway and must result in property damage, injury, or death. Although various sources suggest that about half the motor vehicle crashes in the country are not reported to police, most of these unreported crashes involve only minor property damage and no significant personal injury. By restricting attention to police-reported crashes, the GES concentrated on those crashes of greatest concern to the highway safety community and the public.

GES data collectors made weekly visits to 410 police jurisdictions in 60 sites across the United States, where they randomly sampled about 55,000 PCRs per year. The collectors obtained copies of the PCRs and sent them to the NASS quality control centers for coding. No other data was collected beyond the selected PCRs—no driver license, vehicle registration, or medical information was obtained.

Trained data entry personnel interpreted and coded data directly from the PCRs into an electronic data file. Approximately 90 data elements were coded into a common format. Some elements were modified every other year to meet the changing needs of the highway safety community. To protect individual privacy, no personal information (names, addresses, specific crash locations) was coded. During data coding, the data was checked electronically for validity and consistency. After the data file was created, further quality checks were performed on the data through computer processing and by the data coding supervisors.

CRSS Operations

NHTSA developed and implemented the NASS in the 1970s to make estimates of the motor vehicle crash experience in the United States. In 1988 NHTSA split the NASS into two surveys, the GES and the Crashworthiness Data System (CDS). Since then, the same data collection sites have been used for GES data collection. Given the shifts in population and the vehicle fleet, and the changing analytic needs of the safety community, Congress authorized NHTSA to modernize its crash data collection system. NHTSA redesigned the nationally representative sample of police-reported traffic crashes in the United States. The new system, the Crash Report Sampling System (CRSS), replaced NASS GES in 2016.

The CRSS was designed independent of other NHTSA surveys. The target population for the CRSS is the same as that for the NASS GES: all police-reported motor vehicle crashes on trafficways. The CRSS obtains its data from a nationally representative probability sample selected from the more than 7 million police-reported crashes that occur annually. For a crash to be eligible for the CRSS sample, a crash report must be completed by the police; it must involve at least one motor vehicle traveling on a trafficway; and the crash must result in property damage, injury, or death.

These crash reports are chosen from 60 selected sites across the United States that reflect the geography, population, miles driven, and crashes in the United States. CRSS data collectors review crash reports from hundreds of law enforcement agencies within the sites, systematically sampling tens of thousands of PCRs each year. The collectors obtain copies of the selected PCRs and send them to a central location for coding. No other data are collected beyond that in the selected crash reports.

Trained personnel interpret and code data directly from the PCRs into an electronic data file. Approximately 120 data elements are coded into a common format. After coding, quality checks are performed on the data to ensure validity and consistency. When these are completed, CRSS data files and coding documentation become publicly available.

About This Report

Fatal traffic crash data from FARS and nonfatal crash data from GES and CRSS are presented in this report in five chapters. Chapter 1, “Trends,” presents data from all years of FARS (1975 to 2022), GES (1988 to 2015), and CRSS (2016 to 2022). The remaining chapters present data only from 2022. Chapter 2, “Crashes,” describes general characteristics of crashes, such as when and how often they occurred, where they occurred, and what happened during the crashes. Chapter 3, “Vehicles,” concentrates on the types of vehicles involved in crashes and the damage to the vehicles. Chapter 4, “People,” is the largest chapter of this report, with statistics about drivers, passengers, pedestrians, and pedalcyclists. The last chapter, “States,” contains information about crashes for each State, the District of Columbia, and Puerto Rico. Terms used throughout the report are defined in the Glossary.

Statistics describing fatal crashes or fatalities have been derived from FARS. Statistics describing injury or property-damage-only crashes have been derived from GES (or CRSS) and statistics describing nonfatal injuries have been derived from both FARS and GES (or CRSS). The reader should be aware that FARS numbers are actual counts of fatalities or fatal crashes, whereas GES and CRSS numbers are estimates of counts of crashes and people injured and are subject to sampling and non-sampling errors. (See Appendix C for more information on these errors.) **The 2016 and later year estimates from CRSS are not comparable to 2015 and earlier year estimates from NASS GES because of different sampling designs.** For more information on CRSS, refer to [Crash Report Sampling System: Sample Design and Weighting](#) (Zhang, Noh, et al., 2019a) or [Crash Report Sampling System: Design Overview, Analytic Guidance, and FAQs](#) (Zhang, Subramanian, et al., 2019b).

The reader may also notice that many tables have rows or footnotes for “unknowns” for FARS data, but not for GES or CRSS data. The reason for this difference is that almost all the GES or CRSS unknown data have been assigned values through complex statistical procedures. FARS unknown data, on the other hand, are not assigned values, with the exception of BAC test results. When the alcohol test results are unknown, BAC values in g/dL have been assigned to drivers and nonoccupants involved in fatal crashes, using a method of multiple imputation revised in 2001. More information on the multiple imputation method, including detailed tabulations of alcohol involvement in various categories (age, sex, time of day, etc.), is available in a NHTSA technical report, [Multiple Imputation of Missing Blood Alcohol Concentration \(BAC\) Values in FARS](#) (Rubin et al., 1998).

Changes From the *Traffic Safety Facts 2021* Report

Product Information Catalog and Vehicle Listing (vPIC) Vehicle Classification

Historically, vehicle type classifications (e.g., passenger cars, light trucks, large trucks, motorcycles, buses) from FARS, NASS GES, and CRSS used for analysis and data reporting were based on analyst-coded vehicle body type. NHTSA did not have manufacturer authoritative data to assist in vehicle body type coding. NCSA has developed a vPIC dataset that is being used to decode Vehicle Identification Numbers (VINs) and extract vehicle information. Details of vehicles (make, model, body class, etc.) involved in crashes are obtained from vPIC via VIN-linkage. The VIN-derived information from vPIC uses the manufacturer’s classification of body class, which allows for more accurate vehicle type analysis.

The vPIC-based analysis data are available beginning with 2020 FARS and CRSS data files. Vehicle-related analysis for 2020 and later years are based on vPIC vehicle classification. As a result, the 2020 and later-year vehicle type classifications are not comparable to 2019 and earlier-year vehicle type

About This Report

classifications. This change affects any analysis with a vehicle component to it. More information on vPIC can be found at <https://vpic.nhtsa.dot.gov/> (NHTSA, n.d.).

Vehicle Type Revisions

The 2021 data definitions for vehicle type classifications were reviewed resulting in revisions. The revised vehicle type data definitions were applied to 2020 and later data. The motorcycle category was most effected, as some qualifying body classes were not previously included in this category, but instead were classified as “Other” vehicle type. Consequently, motorcycles were previously underreported.

2020 Imputed Alcohol Data Updates

Blood alcohol concentration test results are not reported for many drivers and nonoccupants involved in fatal traffic crashes. BAC can be missing due to several reasons, the most frequent being that drivers and nonoccupants are not always tested for alcohol. To address the missing data issue, NHTSA uses a statistical model, multiple imputation, to estimate the missing BAC of these people. This statistical model is based on important characteristics of the crash including the type of vehicle driven. Though the 2020 FARS file was already final, due to the “Vehicle Type Revisions,” the 2020 imputed alcohol files were regenerated. Consequently, there were minor changes to alcohol-related estimates for 2020 shown in the 2021 annual report. For example, Table 13 titled “People Killed, by Highest Driver BAC in the Crash, 1982-2021” showed 11,718 alcohol-impaired-driving fatalities in 2020. The updated estimate for alcohol-impaired-driving-fatalities in 2020 is 11,727.

Important Change for Motorized Bicycles

Prior to 2022, motorized bicycles were collected as motor vehicles and classified as motorcycles in FARS and CRSS, and their operators and passengers were captured as motorists. Beginning in 2022, FARS and CRSS are no longer collecting motorized bicycles as motor vehicles. Consequently, operators and passengers of motorized bicycles will be captured as pedalcyclists when involved in a motor vehicle traffic crash. Any traffic crash involving only motorized bicycle(s) will no longer be captured in FARS or CRSS.

Registered Vehicles and VMT by Vehicle Type

Vehicle registration data for passenger vehicles (passenger cars and light trucks) was obtained from R. L. Polk’s National Vehicle Population Profile (NVPP), which is a compilation of all passenger vehicles that have been registered in compliance with State requirements (Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co.). Subsequently, overall registrations and passenger car and light-truck VMT were revised by NHTSA, using a combination of Polk and FHWA exposure data.

Polk enhanced the data quality of its NVPP, resulting in a complete rewrite of the data due to (1) enhanced business rules for vehicles on the road, (2) more consistent reporting/processing across States, and (3) upgraded basis for vehicle coding. A comparison of Polk’s “old” NVPP and “new” NVPP for 2011 shows that the enhancements resulted in an increase of more than 3 percent in NHTSA’s passenger vehicle registration counts, consisting of a 5.6-percent decrease in the 2011 passenger car count and a 14.6-percent increase in the 2011 light-truck count from the old NVPP to the new NVPP, as shown in the table below. Consequently, the data in this report for vehicle registrations and VMT from 2011 to 2021 is not strictly comparable with the data for all prior years, which was based on Polk’s old NVPP.

About This Report

Starting with 2020 data, passenger car and light-truck registrations were revised by NHTSA’s NCSA to align with vPIC, which is manufacturer-based data. Prior year data were revised to align with NHTSA’s NCSA body type, which is analyst-based data. Several vehicles previously classified as passenger cars are now classified as light trucks, with the vast majority as SUVs. Thus, 2020 and later year passenger car and light-truck registration counts are not comparable to prior year data.

Registered Vehicles: NCSA Revised Using Polk and FHWA Data

Year	Passenger Cars (Polk)	Light Trucks (Polk)	Motorcycles (FHWA)	Buses (FHWA)	Large Trucks (FHWA)	NCSA Revised Total
2009 (Old NVPP)	137,203,972	102,008,600	7,929,724	841,993	10,973,214	258,957,503
2010 (Old NVPP)	135,310,480	102,376,147	8,009,503	846,051	10,770,054	257,312,235
2011 (Old NVPP)	134,543,655	103,594,529	8,437,502	666,064	10,270,693	257,512,443
2011 (New NVPP)	126,966,714	118,702,389	8,437,502	666,064	10,270,693	265,043,362
2012 (New NVPP)	127,077,676	118,690,690	8,454,939	764,509	10,659,380	265,647,194
2013 (New NVPP)	128,936,225	120,491,485	8,404,687	864,549	10,597,356	269,294,302
2014 (New NVPP)	131,138,925	123,470,278	8,417,718	872,027	10,905,956	274,804,904
2015 (New NVPP)	133,218,366	127,401,053	8,600,936	888,907	11,203,184	281,312,446
2016 (New NVPP)	134,827,696	132,052,102	8,679,380	976,161	11,498,561	288,033,900
2017 (New NVPP)	132,864,363	135,594,973	8,664,108	983,231	12,229,216	290,335,891
2018 (New NVPP)	132,837,515	141,312,896	8,659,741	992,152	13,233,910	297,036,214
2019 (New NVPP)	129,838,156	146,751,968	8,596,314	995,033	13,085,643	299,267,114
2020 (New NVPP)	110,612,958	164,230,764	8,347,435	1,010,304	12,899,372	297,100,833
2021 (New NVPP)	107,934,093	170,108,546	9,795,491	939,123	13,856,404	302,633,657
2022 (New NVPP)	104,645,629	174,027,343	9,567,664	954,119	14,333,821	303,528,576

VMT: Polk and FHWA

Year	Passenger Cars (Revised FHWA Using Polk)	Light Trucks (Revised FHWA Using Polk)	Motorcycles (FHWA)	Buses (FHWA)	Large Trucks (FHWA)	Total (FHWA)
2009 (Old NVPP)	1,510,339	1,122,909	20,822	14,387	288,306	2,956,764
2010 (Old NVPP)	1,507,716	1,140,740	18,513	13,770	286,527	2,967,266
2011 (Old NVPP)	1,497,460	1,152,998	18,542	13,807	267,594	2,950,402
2011 (New NVPP)	1,369,810	1,280,648	18,542	13,807	267,594	2,945,194
2012 (New NVPP)	1,377,486	1,286,574	21,385	14,781	269,207	2,963,497
2013 (New NVPP)	1,384,194	1,293,536	20,366	15,167	275,017	2,982,941
2014 (New NVPP)	1,396,098	1,314,458	19,970	15,999	279,132	3,020,377
2015 (New NVPP)	1,420,869	1,358,824	19,606	16,230	279,844	3,089,841
2016 (New NVPP)	1,439,678	1,410,040	20,445	16,350	287,895	3,173,815
2017 (New NVPP)	1,424,056	1,453,322	20,149	17,227	297,593	3,210,248
2018 (New NVPP)	1,403,760	1,493,323	20,076	18,303	304,864	3,240,327
2019 (New NVPP)	1,372,622	1,551,431	19,688	17,980	300,050	3,261,772
2020 (New NVPP)	1,035,519	1,537,469	17,947	15,037	297,649	2,903,622
2021 (New NVPP)	1,074,905	1,694,094	19,642	16,744	327,026	3,132,411
2022 (New NVPP)	1,059,950	1,762,714	23,765	18,490	331,272	3,196,191

Notes: NCSA revises FHWA’s passenger car and light-truck VMT using Polk’s registration counts. Starting with 2020 data, passenger car and light-truck revisions were based on vPIC vehicle classifications. As a result, the 2020 and later year passenger car and light-truck counts are not comparable to 2019 and earlier years.

Data Availability

While this report presents a wide spectrum of information in more than 100 tables and figures, it contains only a fraction of the data available from FARS, NASS GES, and CRSS. Additional data from FARS (1975 to 2022), NASS GES (1988 to 2015), and CRSS (2016 to 2022) are available in several ways, including the following.

- Traffic Safety Facts Annual Report Tables can be obtained from the online portal at <https://cdan.dot.gov/tsftables/tsfar.htm>, which contains the most current data available, unlike the Traffic Safety Facts Annual Report publication. The 2021 and earlier year FARS data are final. Although the 2022 data file is a full year's worth of data, it is subject to change when it is finalized. Tables in this report can be rendered using the latest FARS and NASS GES (or CRSS) data available.
- FARS data can also be accessed at www-fars.nhtsa.dot.gov/Main/index.aspx. This website provides instant access to the 1994 to 2022 FARS data via reports, which is an inventory of the fatality statistical reports found in this publication. These are national reports for current and past years that may be customized by selection of State, and for State reports, county tabulation may be selected.
- Data visualization tools for Traffic Safety fact sheets can be found at <https://cdan.dot.gov/Data-Visualization/DataVisualization.htm>.
- FARS and GES/CRSS data can be queried using the Fatality and Injury Reporting System Tool (FIRST) at <https://cdan.dot.gov/query>.
- FARS, NASS GES, and CRSS data can be obtained by downloading published files from www.nhtsa.gov/file-downloads?p=nhtsa/downloads/FARS/ (FARS), www.nhtsa.gov/file-downloads?p=nhtsa/downloads/GES/ (NASS GES), or www.nhtsa.gov/file-downloads?p=nhtsa/downloads/CRSS/ (CRSS). The files are available in Statistical Analysis System (SAS) or comma separated values (CSV) file formats. This will enable you to process the data using your own computer system.
- Modest requests for specific data will be answered by NCSA at no charge. Response usually requires about two weeks, depending on the nature and complexity of the data requested.

Requests for more information from FARS, NASS GES, or CRSS should be directed to:

National Highway Traffic Safety Administration
National Center for Statistics and Analysis, NSA-230
1200 New Jersey Avenue SE
Washington, DC 20590
800-934-8517
Email: NCSARequests@dot.gov

Additional information on all NHTSA's data files, including FARS, NASS GES, and CRSS can be found on the NCSA website at www.nhtsa.gov/data. Fact sheets, recent NCSA research notes, and abstracts of technical reports can be downloaded in PDF format. Comments and suggestions about the NCSA website can be emailed to NCSARequests@dot.gov.

Vehicle Safety Hotline

To report a motor vehicle safety-related problem or to inquire about safety information, contact the Vehicle Safety Hotline at 888-327-4236 or www.nhtsa.gov/report-a-safety-problem.

1



Trends

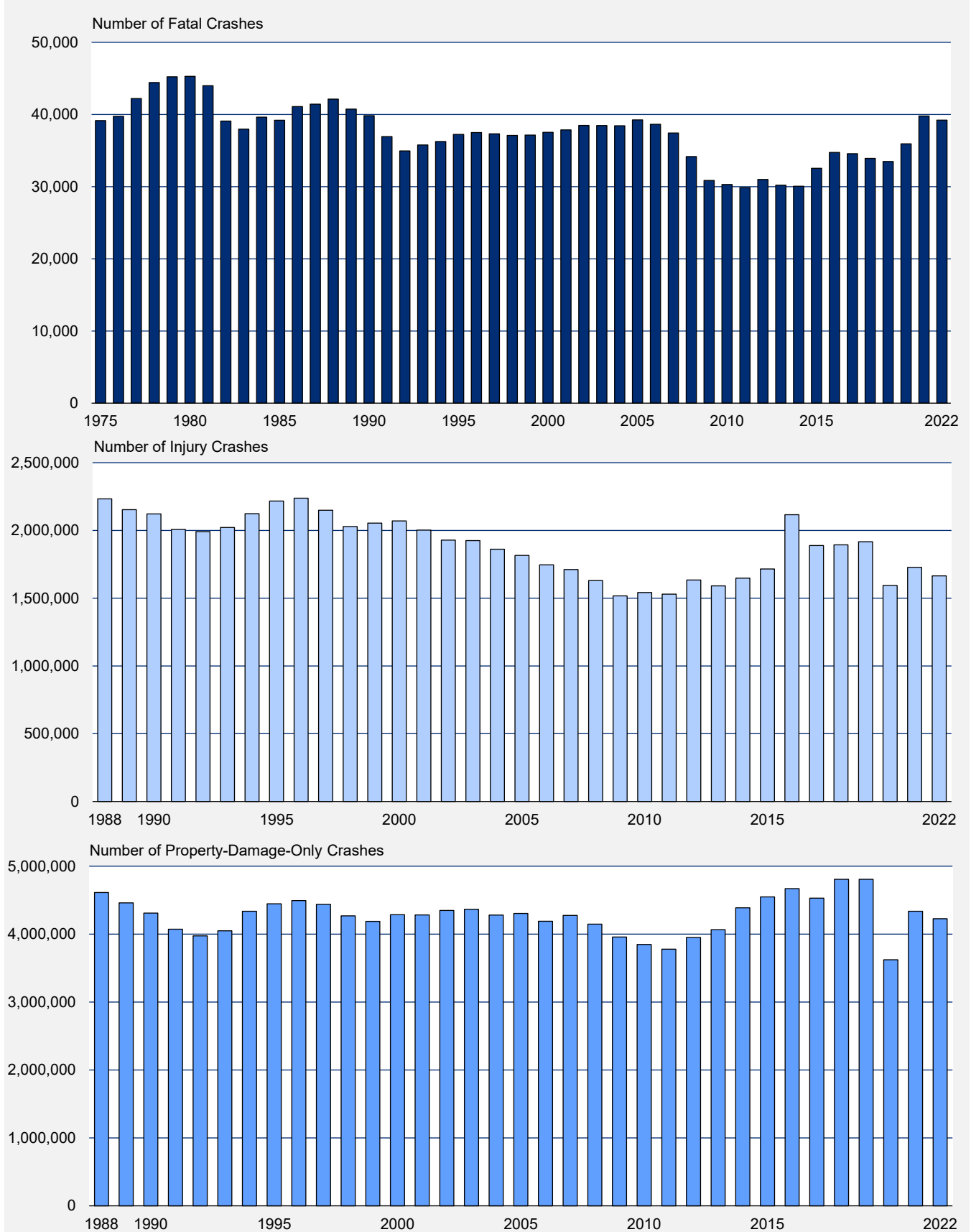
1. Trends

The tables in this chapter present statistics about police-reported motor vehicle traffic crashes over time. Trends for fatal traffic crashes and traffic fatalities generally are presented from 1975 (when FARS began operation) to 2022; however, tables with alcohol data from FARS show data only for the years this data are available: 1982 to 2022. Trends for nonfatal crashes are presented from NASS GES (1988 to 2015) and CRSS (2016 to 2022). Trends for people injured are presented from FARS (1988 to 2022) and NASS GES (1988 to 2015) or CRSS (2016 to 2022). **NASS GES data should not be compared to CRSS data.** Furthermore, care should be taken when comparing nonfatal crash and injury statistics from one year to the next. Since the statistics derived from NASS GES and CRSS data are estimates, year-to-year differences may be the result of the sampling process, not the result of an actual trend. The variability or sampling errors associated with the estimates must be considered when making any year-to-year comparisons using NASS GES or CRSS data (for more information on sampling error, see Appendix C). Below are some of the statistics you will find in this chapter.

- Fatal traffic crashes decreased by 1.4 percent from 2021 to 2022, and the traffic fatality rate decreased to 1.33 fatalities per 100 million VMT in 2022.
- The injury rate decreased by 6.3 percent from 2021 to 2022, to 75 people injured per 100 million VMT.
- The occupant fatality rate (including motorcyclists) per 100,000 population has declined by 39 percent from 1975 to 2022.
- The occupant injury rate (including motorcyclists) per 100,000 population, which declined by 45 percent from 1988 to 2015, decreased by 25 percent from 2016 to 2022.
- The nonoccupant fatality rate per 100,000 population has declined by 32 percent from 1975 to 2022.
- The nonoccupant injury rate per 100,000 population, which declined by 51 percent from 1988 to 2015, decreased by 24 percent from 2016 to 2022.
- The percent of alcohol-impaired-driving fatalities has declined from 48 percent in 1982 to 32 percent in 2022.

1. Trends

Figure 1. Crashes, by Crash Severity, 1975-2022



1. Trends

Table 1. Crashes, by Crash Severity, 1988-2022

Year	Crash Severity						Total Crashes	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1988	42,130	0.6	2,233,321	32.4	4,611,349	67.0	6,886,800	100.0
1989	40,741	0.6	2,153,095	32.4	4,458,979	67.0	6,652,815	100.0
1990	39,836	0.6	2,121,921	32.8	4,309,446	66.6	6,471,202	100.0
1991	36,937	0.6	2,007,635	32.8	4,072,787	66.6	6,117,359	100.0
1992	34,942	0.6	1,991,178	33.2	3,974,190	66.2	6,000,310	100.0
1993	35,780	0.6	2,021,945	33.1	4,048,190	66.3	6,105,915	100.0
1994	36,254	0.6	2,123,257	32.7	4,336,477	66.8	6,495,988	100.0
1995	37,241	0.6	2,216,670	33.1	4,445,504	66.4	6,699,415	100.0
1996	37,494	0.6	2,238,065	33.1	4,494,024	66.4	6,769,583	100.0
1997	37,324	0.6	2,148,985	32.4	4,437,840	67.0	6,624,149	100.0
1998	37,107	0.6	2,028,941	32.0	4,268,525	67.4	6,334,573	100.0
1999	37,140	0.6	2,054,256	32.7	4,187,640	66.7	6,279,036	100.0
2000	37,526	0.6	2,069,905	32.4	4,286,194	67.0	6,393,624	100.0
2001	37,862	0.6	2,002,710	31.7	4,282,391	67.7	6,322,963	100.0
2002	38,491	0.6	1,928,984	30.5	4,348,233	68.8	6,315,708	100.0
2003	38,477	0.6	1,924,912	30.4	4,364,566	69.0	6,327,955	100.0
2004	38,444	0.6	1,861,617	30.1	4,280,966	69.3	6,181,027	100.0
2005	39,252	0.6	1,816,105	29.5	4,303,993	69.9	6,159,350	100.0
2006	38,648	0.6	1,745,924	29.2	4,188,641	70.1	5,973,213	100.0
2007	37,435	0.6	1,711,304	28.4	4,275,269	71.0	6,024,008	100.0
2008	34,172	0.6	1,630,420	28.1	4,146,254	71.4	5,810,846	100.0
2009	30,862	0.6	1,517,075	27.6	3,957,243	71.9	5,505,180	100.0
2010	30,296	0.6	1,542,104	28.5	3,847,045	71.0	5,419,445	100.0
2011	29,867	0.6	1,529,968	28.7	3,777,994	70.8	5,337,829	100.0
2012	31,006	0.6	1,634,180	29.1	3,949,858	70.3	5,615,045	100.0
2013	30,202	0.5	1,591,016	28.0	4,065,673	71.5	5,686,891	100.0
2014	30,056	0.5	1,647,726	27.2	4,386,502	72.3	6,064,284	100.0
2015	32,538	0.5	1,715,394	27.2	4,548,203	72.2	6,296,134	100.0
2016	34,748	0.5	2,116,308	31.0	4,670,073	68.5	6,821,129	100.0
2017	34,560	0.5	1,888,525	29.3	4,529,513	70.2	6,452,598	100.0
2018	33,919	0.5	1,893,704	28.1	4,807,058	71.4	6,734,681	100.0
2019	33,487	0.5	1,916,344	28.4	4,806,253	71.1	6,756,084	100.0
2020	35,935	0.7	1,593,390	30.3	3,621,681	69.0	5,251,006	100.0
2021	39,785	0.7	1,727,608	28.3	4,335,820	71.0	6,103,213	100.0
2022	39,221	0.7	1,664,598	28.1	4,226,677	71.3	5,930,496	100.0

Note: Injury and property-damage-only crash estimates from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Table 2. People Killed and Injured; Fatality and Injury Rates per Population, Licensed Drivers, Registered Vehicles, and VMT, 1966-2022

Killed									
Year	Fatalities	Population	Fatality Rate per 100,000 Population	Licensed Drivers	Fatality Rate per 100,000 Licensed Drivers	Registered Motor Vehicles	Fatality Rate per 100,000 Registered Vehicles	VMT (millions)	Fatality Rate per 100 Million VMT
1966	50,894	196,560,338	25.89	100,998,000	50.39	95,703,030	53.18	925,899	5.50
1967	50,724	198,712,056	25.53	103,172,000	49.16	98,858,898	51.31	964,005	5.26
1968	52,725	200,706,052	26.27	105,410,000	50.02	102,987,134	51.20	1,015,869	5.19
1969	53,543	202,676,946	26.42	108,306,000	49.44	107,412,077	49.85	1,061,791	5.04
1970	52,627	205,052,174	25.67	111,543,000	47.18	111,242,295	47.31	1,109,724	4.74
1971	52,542	207,660,677	25.30	114,426,000	45.92	116,330,037	45.17	1,178,811	4.46
1972	54,589	209,896,021	26.01	118,414,000	46.10	122,556,550	44.54	1,259,786	4.33
1973	54,052	211,908,788	25.51	121,546,000	44.47	130,024,945	41.57	1,313,110	4.12
1974	45,196	213,853,928	21.13	125,427,000	36.03	134,899,955	33.50	1,280,544	3.53
1975	44,525	215,973,199	20.62	129,791,000	34.31	126,153,304	35.29	1,327,664	3.35
1976	45,523	218,035,164	20.88	134,036,000	33.96	130,793,242	34.81	1,402,380	3.25
1977	47,878	220,239,425	21.74	138,121,000	34.66	134,514,286	35.59	1,467,027	3.26
1978	50,331	222,584,545	22.61	140,844,000	35.74	140,374,064	35.85	1,544,704	3.26
1979	51,093	225,055,487	22.70	143,284,000	35.66	144,317,076	35.40	1,529,133	3.34
1980	51,091	227,224,681	22.48	145,295,000	35.16	146,845,134	34.79	1,527,295	3.35
1981	49,301	229,465,714	21.49	147,075,000	33.52	149,330,311	33.01	1,555,308	3.17
1982	43,945	231,664,458	18.97	150,234,000	29.25	151,147,755	29.07	1,595,010	2.76
1983	42,589	233,791,994	18.22	154,389,000	27.59	153,829,970	27.69	1,652,788	2.58
1984	44,257	235,824,902	18.77	155,424,000	28.48	158,899,717	27.85	1,720,269	2.57
1985	43,825	237,923,795	18.42	156,868,000	27.94	166,047,491	26.39	1,774,826	2.47
1986	46,087	240,132,887	19.19	159,486,000	28.90	168,545,286	27.34	1,834,872	2.51
1987	46,390	242,288,918	19.15	161,816,000	28.67	172,749,894	26.85	1,921,204	2.41
1988	47,087	244,498,982	19.26	162,854,000	28.91	177,455,476	26.53	2,025,962	2.32
1989	45,582	246,819,230	18.47	165,554,000	27.53	181,164,568	25.16	2,096,487	2.17
1990	44,599	249,464,396	17.88	167,015,000	26.70	184,275,422	24.20	2,144,362	2.08
1991	41,508	252,153,092	16.46	168,995,000	24.56	186,370,190	22.27	2,172,050	1.91
1992	39,250	255,029,699	15.39	173,125,000	22.67	184,937,848	21.22	2,247,151	1.75
1993	40,150	257,782,608	15.58	173,149,000	23.19	188,349,676	21.32	2,296,378	1.75
1994	40,716	260,327,021	15.64	175,403,000	23.21	192,497,438	21.15	2,357,588	1.73
1995	41,817	262,803,276	15.91	176,628,482	23.68	197,064,868	21.22	2,422,823	1.73
1996	42,065	265,228,572	15.86	179,539,340	23.43	201,630,659	20.86	2,484,080	1.69
1997	42,013	267,783,607	15.69	182,709,204	22.99	203,567,637	20.64	2,552,233	1.65
1998	41,501	270,248,003	15.36	184,860,969	22.45	208,076,469	19.95	2,628,148	1.58
1999	41,717	272,690,813	15.30	187,170,420	22.29	212,685,157	19.61	2,690,241	1.55
2000	41,945	282,162,411	14.87	190,625,023	22.00	217,028,324	19.33	2,746,925	1.53
2001	42,196	284,968,955	14.81	191,275,719	22.06	221,230,149	19.07	2,795,610	1.51
2002	43,005	287,625,193	14.95	194,602,202	22.10	225,684,815	19.06	2,855,508	1.51
2003	42,884	290,107,933	14.78	196,165,667	21.86	230,633,079	18.59	2,890,221	1.48
2004	42,836	292,805,298	14.63	198,888,912	21.54	237,948,530	18.00	2,964,788	1.44
2005	43,510	295,516,599	14.72	200,548,972	21.70	245,628,199	17.71	2,989,430	1.46
2006	42,708	298,379,912	14.31	202,810,438	21.06	251,415,320	16.99	3,014,371	1.42
2007	41,259	301,231,207	13.70	205,741,845	20.05	257,472,378	16.02	3,031,124	1.36
2008	37,423	304,093,966	12.31	208,320,601	17.96	259,360,494	14.43	2,976,528	1.26
2009	33,883	306,771,529	11.05	209,618,386	16.16	258,957,503	13.08	2,956,764	1.15
2010	32,999	309,327,143	10.67	210,114,939	15.71	257,312,235	12.82	2,967,266	1.11
2011	32,479	311,583,481	10.42	211,874,649	15.33	265,043,362	12.25	2,945,194	1.10
2012	33,782	313,877,662	10.76	211,814,830	15.95	265,647,194	12.72	2,963,497	1.14
2013	32,893	316,059,947	10.41	212,159,728	15.50	269,294,302	12.21	2,982,941	1.10
2014	32,744	318,386,329	10.28	214,092,472	15.29	274,804,904	11.92	3,020,377	1.08
2015	35,484	320,738,994	11.06	218,084,465	16.27	281,312,446	12.61	3,089,841	1.15
2016	37,806	323,071,755	11.70	221,711,918	17.05	288,033,900	13.13	3,173,815	1.19
2017	37,473	325,122,128	11.53	225,346,257	16.63	290,335,891	12.91	3,210,248	1.17
2018	36,835	326,838,199	11.27	227,558,385	16.19	297,036,214	12.40	3,240,327	1.14
2019	36,355	328,329,953	11.07	228,915,520	15.88	299,267,114	12.15	3,261,772	1.11
2020	39,007	331,511,512	11.77	228,195,802	17.09	297,100,833	13.13	2,903,622	1.34
2021	43,230	332,031,554	13.02	232,781,797	18.57	302,633,657	14.28	3,132,411	1.38
2022	42,514	333,287,557	12.76	235,086,153	18.08	303,528,576	14.01	3,196,191	1.33

Note: See footnotes at the end of Table 2.

1. Trends

Table 2. People Killed and Injured; Fatality and Injury Rates per Population, Licensed Drivers, Registered Vehicles, and VMT, 1966-2022 (Continued)

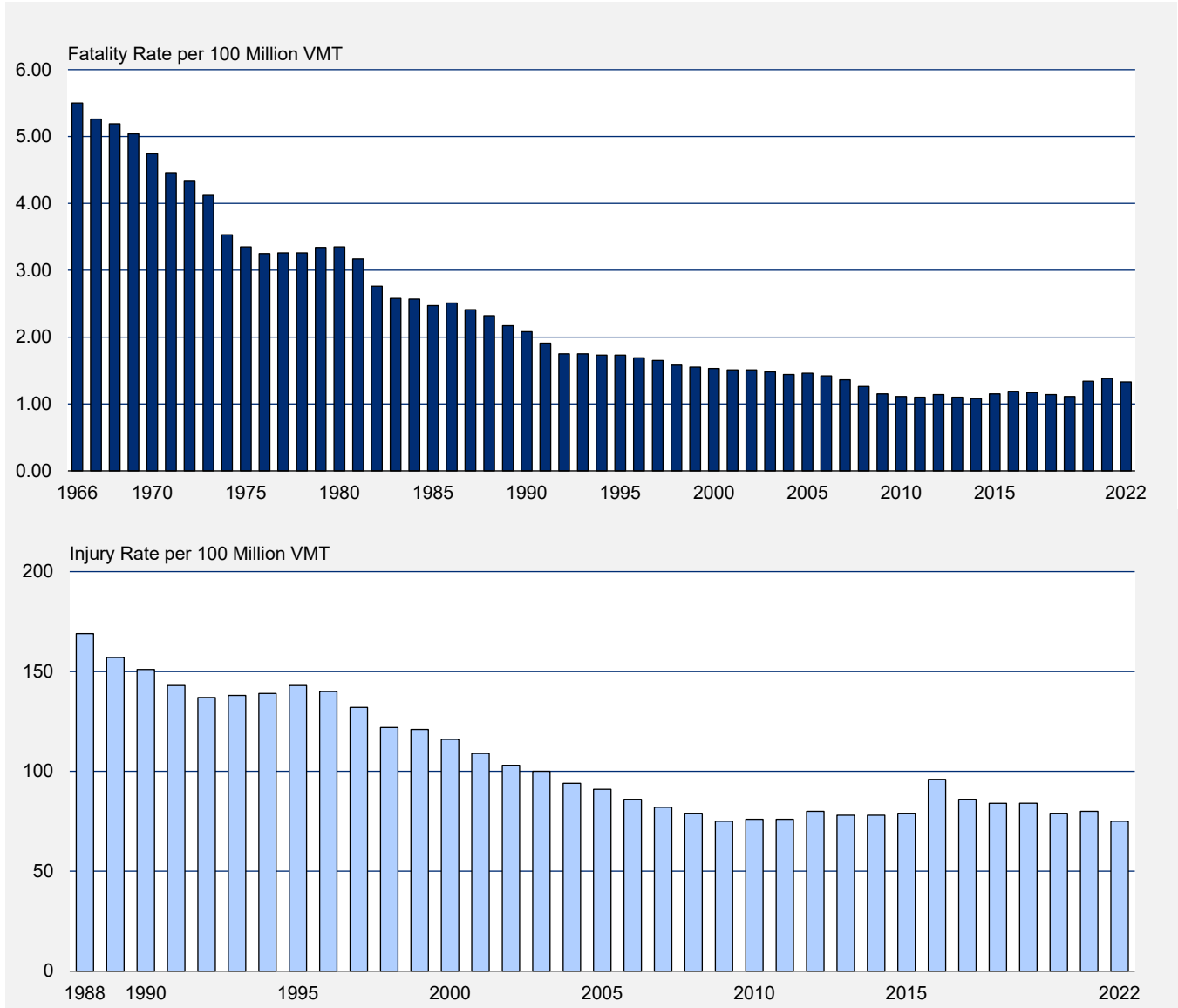
Injured									
Year	Injured	Population	Injury Rate per 100,000 Population	Licensed Drivers	Injury Rate per 100,000 Licensed Drivers	Registered Motor Vehicles	Injury Rate per 100,000 Registered Vehicles	VMT (millions)	Injury Rate per 100 Million VMT
1988	3,427,486	244,498,982	1,402	162,854,000	2,105	177,455,476	1,931	2,025,962	169
1989	3,292,053	246,819,230	1,334	165,554,000	1,989	181,164,568	1,817	2,096,487	157
1990	3,246,271	249,464,396	1,301	167,015,000	1,944	184,275,422	1,762	2,144,362	151
1991	3,106,984	252,153,092	1,232	168,995,000	1,839	186,370,190	1,667	2,172,050	143
1992	3,079,446	255,029,699	1,207	173,125,000	1,779	184,937,848	1,665	2,247,151	137
1993	3,163,411	257,782,608	1,227	173,149,000	1,827	188,349,676	1,680	2,296,378	138
1994	3,274,962	260,327,021	1,258	175,403,000	1,867	192,497,438	1,701	2,357,588	139
1995	3,476,261	262,803,276	1,323	176,628,482	1,968	197,064,868	1,764	2,422,823	143
1996	3,479,974	265,228,572	1,312	179,539,340	1,938	201,630,659	1,726	2,484,080	140
1997	3,360,383	267,783,607	1,255	182,709,204	1,839	203,567,637	1,651	2,552,233	132
1998	3,199,472	270,248,003	1,184	184,860,969	1,731	208,076,469	1,538	2,628,148	122
1999	3,249,784	272,690,813	1,192	187,170,420	1,736	212,685,157	1,528	2,690,241	121
2000	3,193,759	282,162,411	1,132	190,625,023	1,675	217,028,324	1,472	2,746,925	116
2001	3,042,284	284,968,955	1,068	191,275,719	1,591	221,230,149	1,375	2,795,610	109
2002	2,939,143	287,625,193	1,022	194,602,202	1,510	225,684,815	1,302	2,855,508	103
2003	2,901,753	290,107,933	1,000	196,165,667	1,479	230,633,079	1,258	2,890,221	100
2004	2,801,646	292,805,298	957	198,888,912	1,409	237,948,530	1,177	2,964,788	94
2005	2,709,099	295,516,599	917	200,548,972	1,351	245,628,199	1,103	2,989,430	91
2006	2,583,068	298,379,912	866	202,810,438	1,274	251,415,320	1,027	3,014,371	86
2007	2,498,785	301,231,207	830	205,741,845	1,215	257,472,378	971	3,031,124	82
2008	2,355,972	304,093,966	775	208,320,601	1,131	259,360,494	908	2,976,528	79
2009	2,223,537	306,771,529	725	209,618,386	1,061	258,957,503	859	2,956,764	75
2010	2,247,988	309,327,143	727	210,114,939	1,070	257,312,235	874	2,967,266	76
2011	2,227,209	311,583,481	715	211,874,649	1,051	265,043,362	840	2,945,194	76
2012	2,369,083	313,877,662	755	211,814,830	1,118	265,647,194	892	2,963,497	80
2013	2,318,992	316,059,947	734	212,159,728	1,093	269,294,302	861	2,982,941	78
2014	2,342,621	318,386,329	736	214,092,472	1,094	274,804,904	852	3,020,377	78
2015	2,454,778	320,738,994	765	218,084,465	1,126	281,312,446	873	3,089,841	79
2016	3,061,885	323,071,755	948	221,711,918	1,381	288,033,900	1,063	3,173,815	96
2017	2,745,268	325,122,128	844	225,346,257	1,218	290,335,891	946	3,210,248	86
2018	2,710,059	326,838,199	829	227,558,385	1,191	297,036,214	912	3,240,327	84
2019	2,740,141	328,329,953	835	228,915,520	1,197	299,267,114	916	3,261,772	84
2020	2,282,209	331,511,512	688	228,195,802	1,000	297,100,833	768	2,903,622	79
2021	2,497,869	332,031,554	752	232,781,797	1,073	302,633,657	825	3,132,411	80
2022	2,382,771	333,287,557	715	235,086,153	1,014	303,528,576	785	3,196,191	75

Sources: VMT and Licensed Drivers—FHWA; Registered Vehicles, 1966-1974—FHWA; Registered Vehicles, 1975-2022—FHWA and Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co.; Population—Census Bureau; Traffic Deaths, 1966-1974—National Center for Health Statistics, D.H.H.S., State Accident Summaries (adjusted to 30-day traffic deaths by NHTSA); Traffic Deaths, 1975-2022—FARS, NHTSA, 30-day traffic deaths; People Injured—FARS and NASS GES/CRSS

Notes: Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts. Due to an enhancement in the registration data provided by S&P Global Mobility, Copyright © R.L. Polk & Co., for 2011 and later years, registration counts for those years changed considerably from the counts provided for 2010 and earlier years. This should be considered when comparing registration numbers and rates per registered vehicle 2010 and earlier years with those for 2011 and later years. For more details, see pages 6-7 of this report. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Figure 2. Motor Vehicle Fatality and Injury Rates per 100 Million VMT, 1966-2022



Source: VMT—FHWA, revised by NHTSA for passenger cars and light trucks

1. Trends

Table 3. Vehicles Involved in Crashes and Involvement Rates per VMT and per Registered Vehicle, by Vehicle Type and Crash Severity, 1975-2022

Year	Vehicle Type											
	Passenger Cars			Light Trucks			Large Trucks			Motorcycles		
	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles
Fatal Crashes												
1975	37,897	3.68	40.11	8,636	4.23	41.35	3,977	4.89	74.16	3,265	58.00	65.77
1976	37,206	3.48	38.35	9,300	3.98	40.80	4,435	5.15	79.55	3,343	55.69	67.76
1977	39,038	3.54	39.45	10,400	4.04	42.57	5,164	5.43	90.76	4,164	65.59	84.41
1978	40,544	3.57	39.81	11,898	4.11	43.61	5,759	5.45	98.28	4,643	64.86	95.38
1979	39,999	3.60	38.63	12,544	4.27	43.36	6,084	5.58	103.27	4,916	56.92	90.67
1980	39,059	3.53	37.28	12,680	4.29	42.18	5,379	4.96	92.89	5,194	50.85	91.22
1981	38,864	3.46	36.66	12,331	4.01	39.48	5,230	4.81	91.49	4,963	46.43	85.11
1982	34,334	3.00	32.11	11,317	3.51	35.03	4,646	4.17	83.11	4,495	45.36	78.12
1983	33,298	2.80	30.52	11,118	3.32	33.62	4,877	4.20	88.54	4,302	49.11	77.03
1984	34,648	2.83	30.89	11,973	3.34	33.96	5,124	4.21	94.87	4,659	53.04	85.02
1985	34,277	2.74	29.46	12,464	3.21	33.09	5,153	4.17	85.94	4,608	50.72	84.64
1986	36,195	2.83	30.87	13,327	3.20	33.52	5,097	4.02	89.09	4,570	48.63	87.90
1987	36,580	2.75	30.52	14,514	3.27	34.81	5,108	3.83	89.33	4,067	42.78	83.24
1988	36,977	2.67	30.43	15,286	3.13	34.27	5,241	3.80	85.40	3,715	37.06	81.04
1989	35,410	2.50	28.85	15,700	3.00	33.31	4,984	3.49	80.05	3,192	30.78	72.21
1990	34,085	2.39	27.65	15,620	2.81	31.29	4,776	3.27	77.08	3,276	34.28	76.91
1991	31,291	2.22	25.37	14,832	2.49	28.49	4,347	2.91	70.43	2,829	30.82	67.72
1992	29,817	2.08	24.78	14,648	2.28	27.21	4,035	2.63	66.75	2,439	25.52	60.00
1993	30,233	2.09	24.97	15,332	2.27	27.10	4,328	2.71	71.09	2,477	25.01	62.27
1994	30,273	2.07	24.81	16,353	2.30	27.49	4,644	2.73	70.49	2,339	22.84	62.26
1995	30,940	2.09	25.11	17,587	2.35	28.13	4,472	2.51	66.55	2,268	23.15	58.20
1996	30,727	2.05	24.66	18,246	2.32	27.88	4,755	2.60	67.81	2,176	21.94	56.20
1997	30,059	1.97	24.11	18,628	2.26	27.68	4,917	2.57	69.42	2,160	21.43	56.45
1998	29,040	1.87	23.05	19,363	2.25	27.75	4,955	2.52	64.08	2,334	22.70	60.16
1999	28,027	1.79	22.05	19,959	2.22	27.37	4,920	2.43	63.15	2,532	23.92	60.98
2000	27,802	1.76	21.73	20,498	2.18	26.98	4,995	2.43	62.26	2,975	28.42	68.45
2001	27,586	1.73	21.38	20,831	2.14	26.48	4,823	2.31	61.38	3,265	33.89	66.59
2002	27,374	1.70	21.00	21,668	2.14	26.54	4,587	2.14	57.86	3,365	35.23	67.24
2003	26,562	1.65	20.17	22,299	2.14	26.21	4,721	2.17	60.86	3,802	39.70	70.80
2004	25,682	1.58	19.25	22,486	2.05	25.04	4,902	2.22	59.99	4,121	40.71	71.45
2005	25,169	1.56	18.60	22,964	2.03	24.23	4,951	2.22	58.37	4,682	44.79	75.19
2006	24,260	1.50	17.70	22,411	1.94	22.85	4,766	2.14	54.04	4,963	41.19	74.31
2007	22,856	1.47	16.57	21,810	1.92	21.63	4,633	1.52	43.09	5,306	24.80	74.33
2008	20,474	1.34	14.73	19,179	1.73	19.01	4,089	1.32	37.61	5,409	25.99	69.77
2009	18,413	1.22	13.42	17,958	1.60	17.60	3,211	1.11	29.26	4,603	22.11	58.05
2010	17,804	1.18	13.16	17,491	1.53	17.09	3,494	1.22	32.44	4,651	25.12	58.07
2011	17,508	1.28	13.79	16,806	1.31	14.16	3,633	1.36	35.37	4,769	25.72	56.52
2012	18,269	1.33	14.38	17,350	1.35	14.62	3,825	1.42	35.88	5,113	23.91	60.47
2013	17,957	1.30	13.93	16,928	1.31	14.05	3,921	1.43	37.00	4,800	23.57	57.11
2014	17,895	1.28	13.65	17,160	1.31	13.90	3,749	1.34	34.38	4,705	23.56	55.89
2015	19,810	1.39	14.87	18,869	1.39	14.81	4,075	1.46	36.37	5,131	26.17	59.66
2016	21,077	1.46	15.63	19,920	1.41	15.08	4,562	1.58	39.67	5,467	26.74	62.99
2017	21,273	1.49	16.01	20,015	1.38	14.76	4,805	1.61	39.29	5,381	26.71	62.11
2018	20,594	1.47	15.50	19,902	1.33	14.08	4,909	1.61	37.09	5,172	25.76	59.72
2019	19,804	1.44	15.25	19,945	1.29	13.59	5,033	1.68	38.46	5,146	26.14	59.86
2020	19,186	1.85	17.35	22,440	1.46	13.66	4,821	1.62	37.37	5,758	32.08	68.98
2021	21,331	1.98	19.76	25,871	1.53	15.21	5,733	1.75	41.37	6,300	32.07	64.32
2022	20,049	1.89	19.16	25,807	1.46	14.83	5,837	1.76	40.72	6,359	26.76	66.46

Note: See footnotes at the end of Table 3.

1. Trends

Table 3. Vehicles Involved in Crashes and Involvement Rates per VMT and per Registered Vehicle, by Vehicle Type and Crash Severity, 1975-2022 (Continued)

Year	Vehicle Type											
	Passenger Cars			Light Trucks			Large Trucks			Motorcycles		
	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles
Injury Crashes												
1988	3,073,018	222	2,529	682,594	140	1,530	95,853	69	1,562	97,602	974	2,129
1989	2,891,518	204	2,355	727,055	139	1,543	110,195	77	1,770	75,911	732	1,717
1990	2,838,171	199	2,302	728,651	131	1,460	107,160	73	1,730	81,606	854	1,916
1991	2,614,871	185	2,120	788,695	132	1,515	77,999	52	1,264	78,605	856	1,882
1992	2,640,258	184	2,194	758,443	118	1,409	94,725	62	1,567	61,347	642	1,509
1993	2,631,176	182	2,174	842,671	125	1,490	96,522	60	1,585	55,970	565	1,407
1994	2,784,727	191	2,283	912,066	128	1,533	95,631	56	1,452	53,839	526	1,433
1995	2,914,074	197	2,365	1,024,272	137	1,638	83,594	47	1,244	51,888	530	1,331
1996	2,883,910	192	2,314	1,070,503	136	1,636	93,887	51	1,339	50,812	512	1,312
1997	2,736,459	179	2,195	1,064,246	129	1,582	95,545	50	1,349	50,535	501	1,321
1998	2,545,063	164	2,020	1,058,930	123	1,517	88,624	45	1,146	44,536	433	1,148
1999	2,437,505	155	1,918	1,165,266	129	1,598	100,630	50	1,292	46,116	436	1,111
2000	2,396,276	151	1,873	1,209,169	129	1,591	100,521	49	1,253	53,277	509	1,226
2001	2,278,583	143	1,766	1,217,799	125	1,548	89,824	43	1,143	56,628	588	1,155
2002	2,136,278	132	1,639	1,209,943	120	1,482	94,274	44	1,189	58,422	612	1,167
2003	2,129,232	132	1,617	1,232,615	118	1,449	88,797	41	1,145	63,644	665	1,185
2004	1,989,822	122	1,491	1,245,877	114	1,387	86,769	39	1,062	70,224	694	1,217
2005	1,893,402	117	1,399	1,208,917	107	1,275	82,388	37	971	80,363	769	1,291
2006	1,793,504	111	1,309	1,201,551	104	1,225	80,333	36	911	83,567	694	1,251
2007	1,708,363	110	1,239	1,162,733	102	1,153	75,749	25	705	98,061	458	1,374
2008	1,623,535	107	1,168	1,095,252	99	1,086	66,151	21	608	90,080	433	1,162
2009	1,506,595	100	1,098	1,066,231	95	1,045	53,411	19	487	84,420	405	1,065
2010	1,578,724	105	1,167	1,053,326	92	1,029	58,268	20	541	77,565	419	968
2011	1,571,452	115	1,238	1,025,935	80	864	62,534	23	609	76,545	413	907
2012	1,683,457	122	1,325	1,087,044	84	916	76,621	28	719	88,920	416	1,052
2013	1,662,150	120	1,289	1,076,076	83	893	73,089	27	690	84,099	413	1,001
2014	1,684,885	121	1,285	1,138,419	87	922	88,473	32	811	86,945	435	1,033
2015	1,784,972	126	1,340	1,198,413	88	941	87,307	31	779	84,309	430	980
2016	2,186,867	152	1,622	1,468,661	104	1,112	102,080	35	888	100,470	491	1,158
2017	1,956,133	137	1,472	1,334,165	92	984	106,733	36	873	85,165	423	983
2018	1,960,292	140	1,476	1,315,057	88	931	112,253	37	848	78,946	393	912
2019	1,958,397	143	1,508	1,376,632	89	938	118,527	40	906	80,541	409	937
2020	1,256,865	121	1,136	1,196,821	78	729	104,741	35	812	76,863	428	921
2021	1,371,340	128	1,271	1,345,007	79	791	117,210	36	846	81,308	414	830
2022	1,207,127	114	1,154	1,289,765	73	741	120,190	36	839	79,073	333	826

Note: See footnotes at the end of Table 3.

1. Trends

Table 3. Vehicles Involved in Crashes and Involvement Rates per VMT and per Registered Vehicle, by Vehicle Type and Crash Severity, 1975-2022 (Continued)

Year	Vehicle Type											
	Passenger Cars			Light Trucks			Large Trucks			Motorcycles		
	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles	Number	Involvement Rate per 100 Million VMT	Involvement Rate per 100,000 Registered Vehicles
Property-Damage-Only Crashes												
1988	6,050,002	437	4,979	1,542,468	316	3,458	296,969	215	4,839	20,756	207	453
1989	5,677,937	401	4,625	1,612,600	309	3,421	300,452	210	4,825	19,508	188	441
1990	5,485,396	384	4,450	1,654,283	298	3,314	273,299	187	4,411	19,896	208	467
1991	5,084,089	360	4,122	1,675,088	281	3,217	248,271	166	4,022	24,588	268	589
1992	4,851,763	338	4,031	1,703,913	265	3,165	277,243	181	4,586	9,574	100	236
1993	4,788,724	331	3,956	1,884,378	279	3,331	295,917	185	4,861	16,702	169	420
1994	5,126,409	351	4,202	2,022,852	284	3,401	360,135	212	5,467	13,097	128	349
1995	5,334,994	361	4,329	2,148,728	287	3,437	289,386	162	4,307	12,838	131	329
1996	5,280,700	352	4,238	2,273,930	289	3,475	295,154	161	4,209	13,728	138	355
1997	5,116,422	335	4,104	2,313,969	281	3,439	337,207	176	4,761	10,261	102	268
1998	4,895,876	315	3,887	2,314,874	269	3,317	318,073	162	4,114	8,612	84	222
1999	4,469,348	285	3,517	2,491,389	277	3,416	369,209	182	4,739	10,213	96	246
2000	4,466,805	282	3,491	2,621,407	279	3,450	351,159	171	4,377	13,937	133	321
2001	4,399,079	276	3,409	2,679,499	275	3,406	334,850	160	4,261	14,468	150	295
2002	4,442,683	275	3,408	2,756,622	273	3,376	335,517	156	4,232	16,518	173	330
2003	4,355,703	270	3,308	2,804,228	269	3,297	363,111	167	4,681	13,575	142	253
2004	4,216,289	259	3,160	2,885,596	263	3,213	324,369	147	3,970	13,334	132	231
2005	4,168,818	258	3,081	2,919,414	258	3,080	354,213	159	4,176	18,140	174	291
2006	4,046,479	250	2,953	2,932,390	254	2,990	299,707	135	3,398	15,371	128	230
2007	4,014,368	258	2,910	3,007,245	265	2,983	333,110	110	3,098	19,874	93	278
2008	3,930,970	258	2,827	2,848,471	258	2,824	309,368	100	2,845	18,244	88	235
2009	3,686,062	244	2,687	2,865,941	255	2,810	239,298	83	2,181	16,709	80	211
2010	3,753,670	249	2,774	2,704,499	237	2,642	213,940	75	1,986	14,241	77	178
2011	3,739,513	273	2,945	2,581,846	202	2,175	221,225	83	2,154	18,206	98	216
2012	3,875,068	281	3,049	2,705,815	210	2,280	252,837	94	2,372	17,863	84	211
2013	3,989,038	288	3,094	2,776,111	215	2,304	264,904	96	2,500	17,609	86	210
2014	4,278,990	306	3,263	3,028,097	230	2,452	345,873	124	3,171	18,836	94	224
2015	4,438,039	312	3,331	3,196,668	235	2,509	341,548	122	3,049	12,906	66	150
2016	4,534,775	315	3,363	3,181,475	226	2,409	351,138	122	3,054	28,353	139	327
2017	4,354,283	306	3,277	3,188,013	219	2,351	363,372	122	2,971	25,754	128	297
2018	4,677,339	333	3,521	3,335,291	223	2,360	413,805	136	3,127	24,949	124	288
2019	4,582,701	334	3,530	3,450,412	222	2,351	413,972	138	3,164	24,876	126	289
2020	2,705,586	261	2,446	2,799,961	182	1,705	321,859	108	2,495	15,744	88	189
2021	3,150,971	293	2,919	3,378,008	199	1,986	400,784	123	2,892	19,704	100	201
2022	2,788,643	263	2,665	3,233,284	183	1,858	410,397	124	2,863	17,289	73	181

Sources: VMT—FHWA, revised by NHTSA for passenger cars and light trucks; Registered Passenger Cars and Light Trucks—Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co.; Registered Large Trucks and Motorcycles—FHWA

Notes: See Tables 7 to 10 for notes regarding an enhanced methodology used to estimate registered vehicles and VMT for 2007 and after. Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts. Due to an enhancement in the passenger car and light-truck registration data provided by S&P Global Mobility, Copyright © R.L. Polk & Co., for 2011 and later years, registration counts for those years changed considerably from the counts provided for 2010 and earlier years. This should be considered when comparing registration numbers and rates per registered vehicle for 2010 and earlier years with those for 2011 and later years. For more details, see pages 6-7 of this report. Estimates for vehicles involved in injury and property-damage-only crashes from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report. Starting in 2022, motorcycles exclude motorized bicycles. For more details, see page 6 of this report.

1. Trends

Table 4. People Killed and Injured, by Person Type and Vehicle Type, 1975-2022

Year	Person Type											Total
	Occupants by Vehicle Type						Motorcyclists	Nonoccupants				
	Passenger Cars	Light Trucks	Large Trucks	Buses	Other/Unknown	Total		Pedestrians	Pedalcyclists	Other/Unknown	Total	
Killed												
1975	25,929	4,856	961	53	937	32,736	3,189	7,516	1,003	81	8,600	44,525
1976	26,166	5,438	1,132	73	981	33,790	3,312	7,427	914	80	8,421	45,523
1977	26,782	5,976	1,287	42	959	35,046	4,104	7,732	922	74	8,728	47,878
1978	28,153	6,745	1,395	41	622	36,956	4,577	7,795	892	111	8,798	50,331
1979	27,808	7,178	1,432	39	579	37,036	4,894	8,096	932	135	9,163	51,093
1980	27,449	7,486	1,262	46	540	36,783	5,144	8,070	965	129	9,164	51,091
1981	26,645	7,081	1,133	56	603	35,518	4,906	7,837	936	104	8,877	49,301
1982	23,330	6,359	944	35	525	31,193	4,453	7,331	883	85	8,299	43,945
1983	22,979	6,202	982	53	362	30,578	4,265	6,826	839	81	7,746	42,589
1984	23,620	6,496	1,074	46	440	31,676	4,608	7,025	849	99	7,973	44,257
1985	23,212	6,689	977	57	544	31,479	4,564	6,808	890	84	7,782	43,825
1986	24,944	7,317	926	39	442	33,668	4,566	6,779	941	133	7,853	46,087
1987	25,132	8,058	852	51	436	34,529	4,036	6,745	948	132	7,825	46,390
1988	25,808	8,306	911	54	429	35,508	3,662	6,870	911	136	7,917	47,087
1989	25,063	8,551	858	50	424	34,946	3,141	6,556	832	107	7,495	45,582
1990	24,092	8,601	705	32	460	33,890	3,244	6,482	859	124	7,465	44,599
1991	22,385	8,391	661	31	466	31,934	2,806	5,801	843	124	6,768	41,508
1992	21,387	8,098	585	28	387	30,485	2,395	5,549	723	98	6,370	39,250
1993	21,566	8,511	605	18	425	31,125	2,449	5,649	816	111	6,576	40,150
1994	21,997	8,904	670	18	409	31,998	2,320	5,489	802	107	6,398	40,716
1995	22,423	9,568	648	33	392	33,064	2,227	5,584	833	109	6,526	41,817
1996	22,505	9,932	621	21	455	33,534	2,161	5,449	765	154	6,368	42,065*
1997	22,199	10,249	723	18	420	33,609	2,116	5,321	814	153	6,288	42,013
1998	21,194	10,705	742	38	409	33,088	2,294	5,228	760	131	6,119	41,501
1999	20,862	11,265	759	59	447	33,392	2,483	4,939	754	149	5,842	41,717
2000	20,699	11,526	754	22	450	33,451	2,897	4,763	693	141	5,597	41,945
2001	20,320	11,723	708	34	458	33,243	3,197	4,901	732	123	5,756	42,196
2002	20,569	12,274	689	45	528	34,105	3,270	4,851	665	114	5,630	43,005
2003	19,725	12,546	726	41	589	33,627	3,714	4,774	629	140	5,543	42,884
2004	19,192	12,674	766	42	602	33,276	4,028	4,675	727	130	5,532	42,836
2005	18,512	13,037	804	58	659	33,070	4,576	4,892	786	186	5,864	43,510
2006	17,925	12,761	805	27	601	32,119	4,837	4,795	772	185	5,752	42,708
2007	16,614	12,458	805	36	614	30,527	5,174	4,699	701	158	5,558	41,259
2008	14,646	10,816	682	67	580	26,791	5,312	4,414	718	188	5,320	37,423
2009	13,135	10,312	499	26	554	24,526	4,469	4,109	628	151	4,888	33,883
2010	12,491	9,782	530	44	524	23,371	4,518	4,302	623	185	5,110	32,999
2011	12,014	9,302	640	55	499	22,510	4,630	4,457	682	200	5,339	32,479
2012	12,361	9,418	697	39	502	23,017	4,986	4,818	734	227	5,779	33,782
2013	12,037	9,186	695	54	511	22,483	4,692	4,779	749	190	5,718	32,893
2014	11,947	9,103	656	44	557	22,307	4,594	4,910	729	204	5,843	32,744
2015	12,763	9,878	665	49	544	23,899	5,029	5,494	829	233	6,556	35,484
2016	13,508	10,279	815	64	610	25,276	5,337	6,080	853	260	7,193	37,806
2017	13,477	10,186	878	43	546	25,130	5,226	6,075	806	236	7,117	37,473
2018	12,888	9,957	890	44	553	24,332	5,038	6,374	871	220	7,465	36,835
2019	12,355	10,017	893	35	591	23,891	5,044	6,272	859	289	7,420	36,355
2020	12,628	11,286	822	19	862	25,617	5,620	6,565	948	257	7,770	39,007
2021	13,618	12,847	1,011	15	848	28,339	6,143	7,470	976	302	8,748	43,230
2022	12,691	12,729	1,097	26	801	27,344	6,218	7,522	1,105	325	8,952	42,514

*Includes two fatalities of unknown person type. This attribute was only available in 1996.

Notes: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

Starting in 2022, people on motorized bicycles are classified as pedalcyclists instead of motorcyclists. For more details, see page 6 of this report.

1. Trends

Table 4. People Killed and Injured, by Person Type and Vehicle Type, 1975-2022 (Continued)

Year	Person Type											Total
	Occupants by Vehicle Type						Motor-cyclists	Nonoccupants				
	Passenger Cars	Light Trucks	Large Trucks	Buses	Other/Unknown	Total		Pedestrians	Pedalcyclists	Other/Unknown	Total	
Injured												
1988	2,589,729	482,033	37,884	15,441	4,463	3,129,550	105,257	110,398	74,560	7,721	192,679	3,427,486
1989	2,432,460	516,898	42,016	15,744	5,286	3,012,405	83,181	112,056	72,971	11,441	196,468	3,292,053
1990	2,384,199	510,956	41,929	33,508	3,950	2,974,542	84,635	105,198	74,829	7,067	187,093	3,246,271
1991	2,239,505	565,376	28,568	21,676	4,343	2,859,468	80,909	88,594	67,128	10,885	166,607	3,106,984
1992	2,235,970	549,417	33,653	20,904	12,642	2,852,586	65,166	88,923	62,720	10,052	161,695	3,079,446
1993	2,272,964	605,501	31,956	17,694	4,352	2,932,468	59,731	94,189	67,919	9,105	171,213	3,163,411
1994	2,368,302	634,089	30,324	16,436	3,806	3,052,956	57,629	92,298	62,519	9,559	164,377	3,274,962
1995	2,474,585	727,054	30,613	19,570	4,702	3,256,524	57,878	85,983	66,609	9,266	161,859	3,476,261
1996	2,453,195	762,572	32,807	20,800	4,393	3,273,767	55,385	81,877	57,765	11,179	150,821	3,479,974
1997	2,345,425	761,511	31,561	17,427	5,731	3,161,656	52,734	77,146	57,834	11,013	145,993	3,360,383
1998	2,205,226	765,412	28,241	15,997	4,440	3,019,315	49,218	69,150	53,413	8,375	130,939	3,199,472
1999	2,143,002	853,022	33,736	22,884	7,293	3,059,938	49,913	85,346	51,187	3,399	139,933	3,249,784
2000	2,057,089	886,198	30,659	17,462	9,874	3,001,281	57,792	77,941	51,184	5,560	134,685	3,193,759
2001	1,929,996	865,888	29,699	15,525	9,426	2,850,533	60,296	77,704	45,292	8,459	131,455	3,042,284
2002	1,810,510	885,373	26,741	19,437	6,143	2,748,204	65,005	70,888	47,939	7,107	125,934	2,939,143
2003	1,762,001	895,774	26,333	18,731	6,916	2,709,756	67,413	70,292	46,309	7,985	124,585	2,901,753
2004	1,649,483	905,696	27,594	17,008	7,119	2,606,901	76,239	68,146	41,063	9,298	118,507	2,801,646
2005	1,579,857	874,137	27,926	11,727	10,039	2,503,686	87,564	64,578	45,443	7,827	117,848	2,709,099
2006	1,478,909	859,687	23,414	10,376	11,066	2,383,452	87,866	61,107	43,724	6,919	111,750	2,583,068
2007	1,382,640	844,990	23,360	12,833	7,774	2,271,597	103,301	70,298	43,487	10,102	123,887	2,498,785
2008	1,307,512	773,276	23,645	15,801	9,400	2,129,634	96,041	68,988	52,428	8,882	130,298	2,355,972
2009	1,219,183	762,172	16,419	12,509	7,212	2,017,495	89,498	58,871	50,719	6,954	116,544	2,223,537
2010	1,256,101	737,152	19,937	17,586	4,794	2,035,571	82,300	70,267	51,688	8,162	130,117	2,247,988
2011	1,243,706	732,764	22,936	13,807	6,047	2,019,259	81,706	69,036	48,134	9,073	126,243	2,227,209
2012	1,330,250	766,295	25,372	12,410	5,846	2,140,173	93,251	76,129	49,300	10,231	135,659	2,369,083
2013	1,298,569	752,585	24,621	23,954	5,098	2,104,828	88,760	65,929	48,088	11,387	125,404	2,318,992
2014	1,294,030	783,906	27,146	13,697	6,359	2,125,137	91,987	65,072	50,414	10,010	125,497	2,342,621
2015	1,382,271	808,707	30,102	11,942	7,555	2,240,578	88,738	70,077	45,066	10,319	125,463	2,454,778
2016	1,690,359	1,034,963	36,183	24,562	5,133	2,791,199	104,442	86,399	64,218	15,628	166,245	3,061,885
2017	1,528,666	937,147	39,992	12,484	4,986	2,523,274	88,592	71,290	49,698	12,414	133,401	2,745,268
2018	1,510,852	921,272	39,200	15,011	5,295	2,491,630	81,859	75,157	46,536	14,877	136,570	2,710,059
2019	1,498,083	949,902	45,688	15,255	7,075	2,516,003	83,814	75,650	49,057	15,617	140,324	2,740,141
2020	1,022,587	884,424	41,566	7,985	138,740	2,095,303	80,662	54,771	38,886	12,587	106,244	2,282,209
2021	1,108,839	983,904	42,169	11,663	149,309	2,295,884	84,898	60,579	41,615	14,893	117,087	2,497,869
2022	969,791	930,748	41,874	10,556	216,155	2,169,123	82,687	67,336	46,195	17,430	130,961	2,382,771

Notes: Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report. Starting in 2022, people on motorized bicycles are classified as pedalcyclists instead of motorcyclists. For more details, see page 6 of this report.

1. Trends

Table 5. Drivers Involved in Crashes and Involvement Rates per Licensed Driver, by Sex and Crash Severity, 1975-2022

Year	Sex						Total*		
	Male			Female			Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers
	Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers	Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers			
Drivers in Fatal Crashes									
1975	45,651	70,505,000	64.75	9,457	59,286,000	15.95	55,142	129,791,000	42.49
1976	45,633	72,523,000	62.92	10,044	61,513,000	16.33	55,697	134,036,000	41.55
1977	49,134	74,467,000	65.98	10,892	63,654,000	17.11	60,049	138,121,000	43.48
1978	52,235	75,594,000	69.10	11,338	65,250,000	17.38	63,600	140,844,000	45.16
1979	52,783	76,532,000	68.97	11,409	66,753,000	17.09	64,231	143,284,000	44.83
1980	51,463	77,187,000	66.67	11,466	68,108,000	16.84	62,957	145,295,000	43.33
1981	50,336	77,888,000	64.63	11,509	69,187,000	16.63	62,154	147,075,000	42.26
1982	44,370	78,553,000	56.48	10,675	71,681,000	14.89	56,029	150,234,000	37.29
1983	42,812	80,894,000	52.92	10,958	73,495,000	14.91	54,656	154,389,000	35.40
1984	44,723	80,977,000	55.23	11,907	74,447,000	15.99	57,512	155,424,000	37.00
1985	44,846	81,592,000	54.96	12,142	75,276,000	16.13	57,883	156,868,000	36.90
1986	46,653	82,792,000	56.35	12,744	76,694,000	16.62	60,335	159,486,000	37.83
1987	46,884	83,987,000	55.82	13,614	77,829,000	17.49	61,442	161,816,000	37.97
1988	47,402	84,150,000	56.33	13,951	78,704,000	17.73	62,253	162,854,000	38.23
1989	45,448	85,377,000	53.23	14,054	80,177,000	17.53	60,435	165,554,000	36.50
1990	44,281	85,792,000	51.61	13,726	81,223,000	16.90	58,893	167,015,000	35.26
1991	40,731	86,665,000	47.00	12,825	82,330,000	15.58	54,391	168,995,000	32.18
1992	38,598	88,387,000	43.67	12,596	84,738,000	14.86	51,901	173,125,000	29.98
1993	39,556	87,993,000	44.95	13,082	85,156,000	15.36	53,401	173,149,000	30.84
1994	40,233	89,194,000	45.11	13,567	86,210,000	15.74	54,549	175,403,000	31.10
1995	41,235	89,214,367	46.22	14,184	87,414,115	16.23	56,164	176,628,482	31.80
1996	41,376	90,518,656	45.71	14,850	89,020,684	16.68	57,001	179,539,340	31.75
1997	40,954	91,905,105	44.56	14,954	90,804,099	16.47	56,688	182,709,204	31.03
1998	40,816	93,040,202	43.87	15,089	91,820,767	16.43	56,604	184,860,969	30.62
1999	41,012	94,166,321	43.55	14,835	93,004,099	15.95	56,502	187,170,420	30.19
2000	41,795	95,796,069	43.63	14,790	94,828,953	15.60	57,280	190,625,023	30.05
2001	41,901	95,792,245	43.74	14,919	95,483,474	15.62	57,586	191,275,719	30.11
2002	42,377	97,610,009	43.41	14,999	96,992,193	15.46	58,113	194,602,202	29.86
2003	42,586	98,228,365	43.35	15,211	97,937,302	15.53	58,517	196,165,667	29.83
2004	42,250	99,571,391	42.43	15,384	99,317,521	15.49	58,395	198,888,912	29.36
2005	43,282	100,252,145	43.17	15,059	100,296,827	15.01	59,220	200,548,972	29.53
2006	42,223	101,116,282	41.76	14,753	101,694,156	14.51	57,846	202,810,438	28.52
2007	41,053	102,464,936	40.07	14,184	103,276,909	13.73	56,019	205,741,845	27.23
2008	37,061	103,618,162	35.77	12,627	104,702,439	12.06	50,416	208,320,601	24.20
2009	32,882	104,261,813	31.54	11,864	105,356,573	11.26	45,337	209,618,386	21.63
2010	32,079	104,374,496	30.73	11,859	105,740,443	11.22	44,599	210,114,939	21.23
2011	31,918	104,899,893	30.43	11,265	106,974,756	10.53	43,840	211,874,649	20.69
2012	33,351	104,985,117	31.77	11,604	106,829,713	10.86	45,664	211,814,830	21.56
2013	32,608	105,007,670	31.05	11,429	107,152,058	10.67	44,803	212,159,728	21.12
2014	32,630	105,907,684	30.81	11,293	108,184,788	10.44	44,671	214,092,472	20.87
2015	35,850	107,649,686	33.30	12,382	110,434,779	11.21	49,163	218,084,465	22.54
2016	37,941	109,587,219	34.62	13,376	112,124,699	11.93	52,399	221,711,918	23.63
2017	38,028	111,401,056	34.14	13,673	113,945,201	12.00	52,752	225,346,257	23.41
2018	37,406	112,479,825	33.26	13,379	115,078,560	11.63	51,905	227,558,385	22.81
2019	37,196	112,961,761	32.93	13,000	115,953,759	11.21	51,302	228,915,520	22.41
2020	39,594	112,595,057	35.16	13,111	115,600,745	11.34	54,165	228,195,802	23.74
2021	44,359	115,215,219	38.50	15,260	117,566,578	12.98	61,379	232,781,797	26.37
2022	43,582	116,121,874	37.53	14,719	118,964,279	12.37	60,048	235,086,153	25.54

Source: Licensed Drivers—FHWA

*Includes drivers of unknown sex.

Notes: Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts. Licensed drivers may include drivers under 15, because individual age data are not available for those under 16.

1. Trends

Table 5. Drivers Involved in Crashes and Involvement Rates per Licensed Driver, by Sex and Crash Severity, 1975-2022 (Continued)

Year	Sex						Total		
	Male			Female			Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers
	Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers	Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers			
Drivers in Injury Crashes									
1988	2,443,929	84,150,000	2,904	1,494,115	78,704,000	1,898	3,938,044	162,854,000	2,418
1989	2,361,116	85,377,000	2,766	1,451,637	80,177,000	1,811	3,812,753	165,554,000	2,303
1990	2,299,781	85,792,000	2,681	1,463,294	81,223,000	1,802	3,763,075	167,015,000	2,253
1991	2,185,035	86,665,000	2,521	1,386,733	82,330,000	1,684	3,571,769	168,995,000	2,114
1992	2,125,994	88,387,000	2,405	1,446,570	84,738,000	1,707	3,572,563	173,125,000	2,064
1993	2,163,313	87,993,000	2,459	1,476,209	85,156,000	1,734	3,639,522	173,149,000	2,102
1994	2,276,186	89,194,000	2,552	1,580,905	86,210,000	1,834	3,857,091	175,403,000	2,199
1995	2,390,345	89,214,367	2,679	1,695,265	87,414,115	1,939	4,085,610	176,628,482	2,313
1996	2,390,306	90,518,656	2,641	1,721,196	89,020,684	1,933	4,111,502	179,539,340	2,290
1997	2,307,805	91,905,105	2,511	1,650,100	90,804,099	1,817	3,957,906	182,709,204	2,166
1998	2,168,679	93,040,202	2,331	1,582,754	91,820,767	1,724	3,751,433	184,860,969	2,029
1999	2,149,752	94,166,321	2,283	1,617,632	93,004,099	1,739	3,767,384	187,170,420	2,013
2000	2,200,227	95,796,069	2,297	1,576,933	94,828,953	1,663	3,777,160	190,625,023	1,981
2001	2,103,874	95,792,245	2,196	1,554,117	95,483,474	1,628	3,657,991	191,275,719	1,912
2002	2,022,375	97,610,009	2,072	1,488,510	96,992,193	1,535	3,510,885	194,602,202	1,804
2003	1,998,931	98,228,365	2,035	1,530,821	97,937,302	1,563	3,529,753	196,165,667	1,799
2004	1,920,355	99,571,391	1,929	1,487,779	99,317,521	1,498	3,408,134	198,888,912	1,714
2005	1,849,874	100,252,145	1,845	1,431,646	100,296,827	1,427	3,281,520	200,548,972	1,636
2006	1,780,412	101,116,282	1,761	1,395,653	101,694,156	1,372	3,176,066	202,810,438	1,566
2007	1,718,661	102,464,936	1,677	1,338,596	103,276,909	1,296	3,057,257	205,741,845	1,486
2008	1,609,058	103,618,162	1,553	1,280,485	104,702,439	1,223	2,889,542	208,320,601	1,387
2009	1,499,561	104,261,813	1,438	1,224,613	105,356,573	1,162	2,724,173	209,618,386	1,300
2010	1,516,323	104,374,496	1,453	1,265,053	105,740,443	1,196	2,781,377	210,114,939	1,324
2011	1,506,566	104,899,893	1,436	1,243,895	106,974,756	1,163	2,750,461	211,874,649	1,298
2012	1,634,884	104,985,117	1,557	1,314,534	106,829,713	1,230	2,949,419	211,814,830	1,392
2013	1,584,385	105,007,670	1,509	1,330,703	107,152,058	1,242	2,915,088	212,159,728	1,374
2014	1,659,476	105,907,684	1,567	1,351,171	108,184,788	1,249	3,010,648	214,092,472	1,406
2015	1,746,936	107,649,686	1,623	1,423,809	110,434,779	1,289	3,170,745	218,084,465	1,454
2016	2,132,182	109,587,219	1,946	1,743,694	112,124,699	1,555	3,875,876	221,711,918	1,748
2017	1,930,570	111,401,056	1,733	1,565,831	113,945,201	1,374	3,496,402	225,346,257	1,552
2018	1,933,093	112,479,825	1,719	1,548,752	115,078,560	1,346	3,481,844	227,558,385	1,530
2019	1,985,748	112,961,761	1,758	1,563,264	115,953,759	1,348	3,549,012	228,915,520	1,550
2020	1,646,716	112,595,057	1,463	1,194,171	115,600,745	1,033	2,840,887	228,195,802	1,245
2021	1,816,518	115,215,219	1,577	1,344,159	117,566,578	1,143	3,160,677	232,781,797	1,358
2022	1,749,828	116,121,874	1,507	1,296,172	118,964,279	1,090	3,046,000	235,086,153	1,296

Source: Licensed Drivers—FHWA

Notes: Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts. Estimates for drivers involved in injury and property-damage-only crashes from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. Licensed drivers may include drivers under 15, because individual age data are not available for those under 16.

1. Trends

Table 5. Drivers Involved in Crashes and Involvement Rates per Licensed Driver, by Sex and Crash Severity, 1975-2022 (Continued)

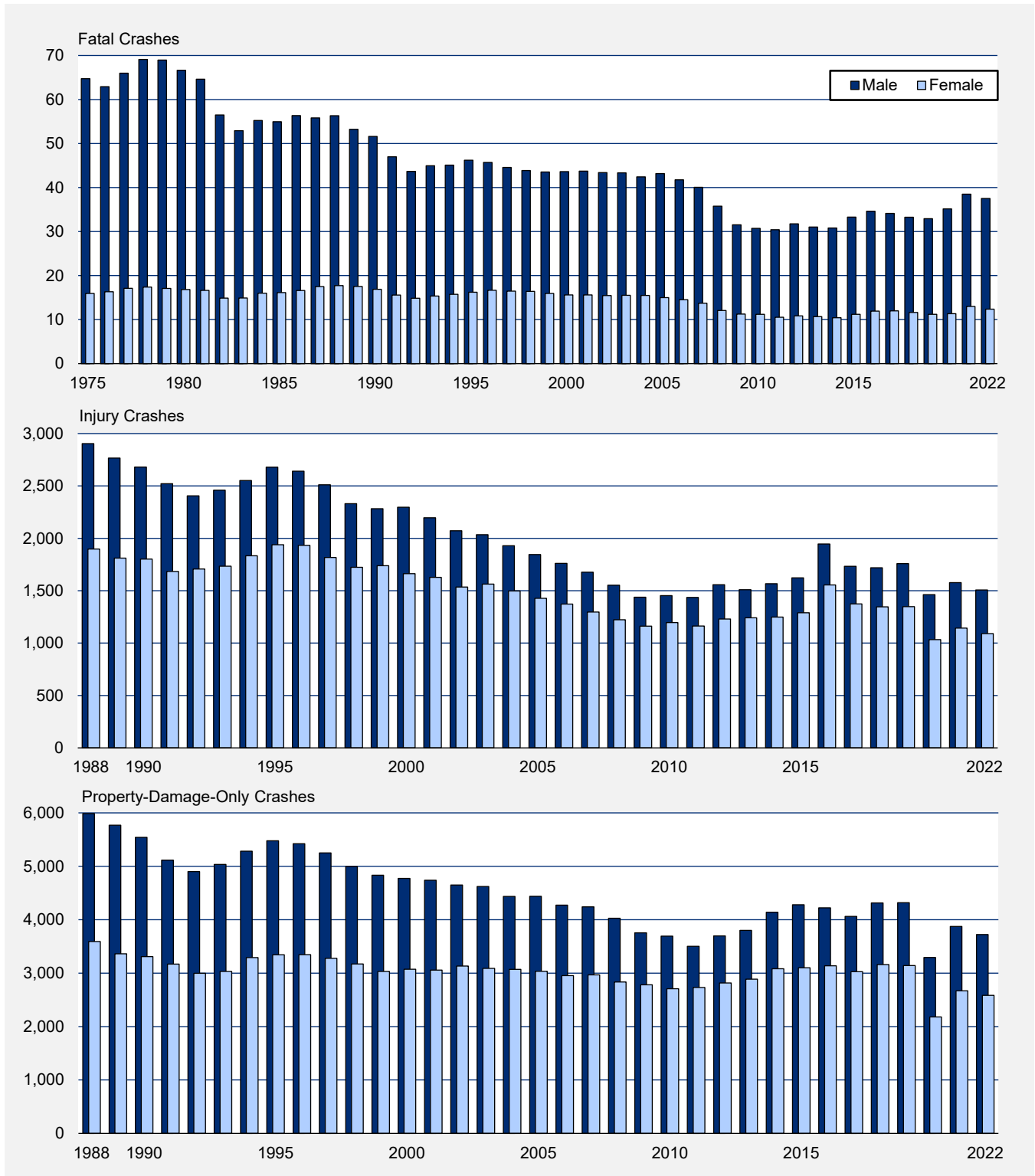
Year	Sex						Total		
	Male			Female			Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers
	Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers	Number Involved in Crashes	Licensed Drivers	Involvement Rate per 100,000 Licensed Drivers			
Drivers in Property-Damage-Only Crashes									
1988	5,037,817	84,150,000	5,987	2,826,460	78,704,000	3,591	7,864,278	162,854,000	4,829
1989	4,926,029	85,377,000	5,770	2,694,771	80,177,000	3,361	7,620,801	165,554,000	4,603
1990	4,754,327	85,792,000	5,542	2,688,243	81,223,000	3,310	7,442,570	167,015,000	4,456
1991	4,433,701	86,665,000	5,116	2,609,840	82,330,000	3,170	7,043,541	168,995,000	4,168
1992	4,331,666	88,387,000	4,901	2,539,281	84,738,000	2,997	6,870,947	173,125,000	3,969
1993	4,429,731	87,993,000	5,034	2,581,163	85,156,000	3,031	7,010,895	173,149,000	4,049
1994	4,711,549	89,194,000	5,282	2,836,707	86,210,000	3,290	7,548,255	175,403,000	4,303
1995	4,888,163	89,214,367	5,479	2,922,081	87,414,115	3,343	7,810,244	176,628,482	4,422
1996	4,908,177	90,518,656	5,422	2,979,585	89,020,684	3,347	7,887,762	179,539,340	4,393
1997	4,825,853	91,905,105	5,251	2,976,456	90,804,099	3,278	7,802,309	182,709,204	4,270
1998	4,647,499	93,040,202	4,995	2,912,226	91,820,767	3,172	7,559,725	184,860,969	4,089
1999	4,550,405	94,166,321	4,832	2,819,411	93,004,099	3,031	7,369,816	187,170,420	3,937
2000	4,573,480	95,796,069	4,774	2,914,402	94,828,953	3,073	7,487,882	190,625,023	3,928
2001	4,539,479	95,792,245	4,739	2,917,870	95,483,474	3,056	7,457,350	191,275,719	3,899
2002	4,539,100	97,610,009	4,650	3,038,019	96,992,193	3,132	7,577,119	194,602,202	3,894
2003	4,540,831	98,228,365	4,623	3,026,397	97,937,302	3,090	7,567,228	196,165,667	3,858
2004	4,418,147	99,571,391	4,437	3,048,966	99,317,521	3,070	7,467,113	198,888,912	3,754
2005	4,448,934	100,252,145	4,438	3,042,729	100,296,827	3,034	7,491,663	200,548,972	3,736
2006	4,321,276	101,116,282	4,274	3,003,348	101,694,156	2,953	7,324,624	202,810,438	3,612
2007	4,345,252	102,464,936	4,241	3,065,666	103,276,909	2,968	7,410,919	205,741,845	3,602
2008	4,173,812	103,618,162	4,028	2,967,421	104,702,439	2,834	7,141,233	208,320,601	3,428
2009	3,913,473	104,261,813	3,754	2,931,260	105,356,573	2,782	6,844,733	209,618,386	3,265
2010	3,854,175	104,374,496	3,693	2,862,460	105,740,443	2,707	6,716,635	210,114,939	3,197
2011	3,674,834	104,899,893	3,503	2,920,843	106,974,756	2,730	6,595,677	211,874,649	3,113
2012	3,880,163	104,985,117	3,696	3,006,762	106,829,713	2,815	6,886,925	211,814,830	3,251
2013	3,990,473	105,007,670	3,800	3,092,383	107,152,058	2,886	7,082,856	212,159,728	3,338
2014	4,383,009	105,907,684	4,139	3,334,784	108,184,788	3,082	7,717,793	214,092,472	3,605
2015	4,607,504	107,649,686	4,280	3,424,586	110,434,779	3,101	8,032,090	218,084,465	3,683
2016	4,627,656	109,587,219	4,223	3,517,731	112,124,699	3,137	8,145,386	221,711,918	3,674
2017	4,523,758	111,401,056	4,061	3,449,884	113,945,201	3,028	7,973,642	225,346,257	3,538
2018	4,853,366	112,479,825	4,315	3,638,194	115,078,560	3,161	8,491,561	227,558,385	3,732
2019	4,877,680	112,961,761	4,318	3,641,617	115,953,759	3,141	8,519,297	228,915,520	3,722
2020	3,709,088	112,595,057	3,294	2,521,591	115,600,745	2,181	6,230,679	228,195,802	2,730
2021	4,463,098	115,215,219	3,874	3,136,348	117,566,578	2,668	7,599,446	232,781,797	3,265
2022	4,321,554	116,121,874	3,722	3,075,610	118,964,279	2,585	7,397,414	235,086,153	3,147

Source: Licensed Drivers—FHWA

Notes: Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts. Estimates for drivers involved in injury and property-damage-only crashes from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. Licensed drivers may include drivers under 15, because individual age data are not available for those under 16.

1. Trends

Figure 3. Driver Involvement Rates per 100,000 Licensed Drivers, by Sex and Crash Severity, 1975-2022



Source: Licensed Drivers—FHWA

1. Trends

Table 6. Motor Vehicle Occupant and Motorcyclist Fatality and Injury Rates per Population, by Age Group, 1975-2022

Year	Age Group											Total
	<5	5-9	10-14	15-20	21-24	25-34	35-44	45-54	55-64	65-74	>74	
Fatality Rate per 100,000 Population												
1975	4.50	2.71	4.09	34.36	34.55	21.46	15.62	13.41	13.29	14.72	16.98	16.63
1976	4.50	2.56	4.44	36.25	34.69	21.17	15.22	13.71	13.58	14.92	17.26	17.02
1977	4.68	2.83	4.54	38.11	38.40	22.17	15.57	13.90	13.55	14.03	16.13	17.78
1978	4.61	2.66	4.70	39.50	40.39	24.15	16.67	14.07	13.44	14.79	16.36	18.66
1979	4.35	2.84	4.22	39.37	39.71	24.85	17.07	14.02	13.24	13.59	15.51	18.63
1980	4.24	2.67	4.13	38.48	39.86	24.82	16.85	14.51	12.83	12.96	15.27	18.45
1981	3.75	2.43	3.76	34.61	37.41	24.22	16.63	13.81	12.68	13.16	14.94	17.62
1982	3.67	2.22	3.65	30.92	32.75	20.45	14.30	11.84	11.24	11.85	14.89	15.39
1983	3.55	2.33	3.32	29.80	30.97	19.86	13.87	11.79	10.92	11.92	15.48	14.90
1984	3.13	2.33	3.72	31.36	32.89	20.26	13.91	11.86	11.16	12.98	16.18	15.39
1985	3.18	2.36	4.15	30.11	32.75	19.50	13.87	11.88	11.33	12.63	16.73	15.15
1986	3.42	2.30	4.21	34.10	33.72	21.04	13.82	11.50	11.38	13.46	17.71	15.92
1987	3.78	2.60	4.11	33.23	32.83	21.05	14.15	12.10	11.93	13.58	18.22	15.92
1988	3.82	2.64	4.30	34.20	33.63	20.50	14.20	12.33	12.15	14.12	19.26	16.02
1989	3.93	2.92	4.02	31.50	30.85	20.10	13.89	12.46	12.18	14.24	19.41	15.43
1990	3.30	2.50	3.73	30.91	30.62	19.81	13.34	12.20	11.91	13.36	18.48	14.89
1991	3.13	2.39	3.54	28.69	28.83	17.79	12.29	11.12	10.75	13.22	19.14	13.78
1992	2.99	2.41	3.36	25.67	25.96	16.54	11.71	10.62	10.53	13.27	18.81	12.89
1993	3.14	2.35	3.34	26.10	26.70	16.47	11.86	10.52	10.86	12.73	20.78	13.02
1994	3.46	2.35	3.70	27.35	26.27	16.07	11.79	11.15	10.71	13.99	20.71	13.18
1995	3.17	2.46	3.81	26.48	27.30	17.03	12.49	11.01	11.42	13.67	20.87	13.43
1996	3.40	2.34	3.72	26.43	27.31	16.78	12.60	11.14	11.58	14.20	20.84	13.46
1997	3.16	2.42	3.73	25.42	25.53	16.49	12.23	11.57	11.96	14.46	22.09	13.34
1998	3.03	2.60	3.55	24.64	25.06	15.81	12.60	11.44	11.53	14.31	21.28	13.09
1999	2.94	2.54	3.40	25.19	25.56	16.13	12.62	11.48	11.52	14.17	20.70	13.16
2000	2.82	2.38	3.15	24.79	25.29	15.55	12.81	11.51	11.38	12.88	19.51	12.88
2001	2.68	2.27	2.92	24.50	24.94	15.67	12.93	11.35	11.01	12.76	19.35	12.79
2002	2.44	2.13	3.06	25.60	25.88	15.75	13.03	11.85	11.10	12.61	18.81	12.99
2003	2.48	2.14	3.23	24.16	24.87	15.54	13.07	12.02	11.24	12.45	19.27	12.87
2004	2.57	2.28	3.26	23.75	24.94	15.82	12.48	12.07	11.05	12.30	18.16	12.74
2005	2.35	2.24	2.64	22.19	25.71	16.33	12.92	11.99	11.60	12.46	17.29	12.74
2006	2.32	1.85	2.45	21.69	26.07	16.37	12.68	11.80	10.95	11.31	15.73	12.39
2007	1.98	1.78	2.46	20.16	25.02	15.40	12.20	11.52	10.58	10.93	15.41	11.85
2008	1.50	1.44	1.83	16.52	21.56	14.28	11.03	10.54	9.82	10.02	14.16	10.56
2009	1.62	1.40	1.76	14.46	17.62	12.45	9.90	9.89	8.78	9.18	13.42	9.45
2010	1.48	1.26	1.54	12.34	17.60	11.84	9.46	9.15	8.88	8.95	14.01	9.02
2011	1.38	1.22	1.43	12.37	16.67	11.50	9.05	8.97	8.36	9.11	12.62	8.71
2012	1.54	1.17	1.33	11.72	16.94	12.19	9.54	9.27	8.87	9.12	12.17	8.92
2013	1.44	1.19	1.48	10.88	16.08	11.65	9.09	8.87	8.63	8.81	12.46	8.60
2014	1.24	1.23	1.34	10.99	15.90	11.53	8.70	9.00	8.40	8.23	12.17	8.45
2015	1.42	1.29	1.37	11.63	16.74	12.40	9.41	9.46	8.96	9.10	12.64	9.02
2016	1.54	1.42	1.53	11.80	17.72	13.23	10.08	9.60	9.44	9.39	13.38	9.48
2017	1.55	1.22	1.44	11.49	16.81	12.79	10.16	9.74	9.61	8.66	13.76	9.34
2018	1.38	1.25	1.31	10.57	16.06	12.48	9.60	9.47	9.46	8.94	12.52	8.99
2019	1.25	1.27	1.46	10.04	15.15	11.83	9.74	9.31	9.25	8.87	12.91	8.81
2020	1.26	1.22	1.70	11.33	17.00	14.29	10.79	9.75	9.53	8.30	10.92	9.42
2021	1.55	1.52	1.73	12.45	17.30	15.52	12.15	11.14	10.28	9.07	12.51	10.39
2022	1.47	1.20	1.64	11.85	15.92	14.63	11.76	10.74	10.22	9.45	12.50	10.07

Source: Population—Census Bureau

Note: Population estimates for historical years are revised periodically.

1. Trends

Table 6. Motor Vehicle Occupant and Motorcyclist Fatality and Injury Rates per Population, by Age Group, 1975-2022 (Continued)

Year	Age Group											Total
	<5	5-9	10-14	15-20	21-24	25-34	35-44	45-54	55-64	65-74	>74	
Injury Rate per 100,000 Population												
1988	418	447	612	3,002	2,674	1,807	1,312	1,036	878	709	659	1,323
1989	373	471	580	2,969	2,468	1,675	1,285	987	801	712	613	1,254
1990	334	432	583	2,828	2,512	1,681	1,230	992	847	748	517	1,226
1991	388	470	602	2,681	2,331	1,579	1,147	981	797	726	523	1,166
1992	327	435	557	2,735	2,265	1,575	1,104	974	785	725	587	1,144
1993	373	475	540	2,632	2,320	1,611	1,199	957	825	710	595	1,161
1994	412	470	577	2,703	2,376	1,673	1,225	990	857	755	600	1,195
1995	420	486	628	2,880	2,465	1,728	1,295	1,134	928	756	625	1,261
1996	421	528	627	2,821	2,440	1,762	1,291	1,073	906	789	657	1,255
1997	403	467	576	2,689	2,412	1,695	1,261	1,014	823	762	641	1,200
1998	405	441	569	2,529	2,131	1,590	1,157	1,031	872	698	589	1,135
1999	389	479	534	2,596	2,181	1,603	1,138	1,029	802	762	616	1,140
2000	352	406	473	2,403	2,100	1,453	1,160	948	828	720	668	1,084
2001	313	373	449	2,193	2,028	1,393	1,098	935	755	671	581	1,021
2002	305	383	439	2,138	1,911	1,323	1,037	877	766	618	552	978
2003	307	379	411	2,018	1,862	1,341	1,026	876	731	609	524	957
2004	288	354	418	1,899	1,721	1,218	1,012	879	727	601	498	916
2005	269	324	415	1,760	1,724	1,228	954	833	683	541	467	877
2006	271	288	353	1,637	1,588	1,159	925	764	662	556	491	828
2007	268	290	306	1,537	1,529	1,136	843	753	628	550	432	788
2008	244	267	321	1,375	1,396	1,041	800	721	600	491	405	732
2009	220	263	287	1,213	1,382	967	736	697	566	504	398	687
2010	192	252	278	1,191	1,338	939	807	706	571	463	419	685
2011	232	245	273	1,128	1,260	961	789	692	585	459	387	674
2012	196	267	256	1,161	1,356	1,023	828	742	620	515	424	712
2013	230	264	271	1,107	1,347	976	778	720	627	504	439	694
2014	229	241	280	1,061	1,275	1,009	819	761	623	493	404	696
2015	237	282	288	1,188	1,386	1,026	850	746	646	533	407	726
2016	305	342	339	1,507	1,670	1,327	1,055	948	757	591	494	896
2017	263	304	293	1,337	1,471	1,164	949	845	703	577	468	803
2018	243	296	320	1,188	1,475	1,158	951	852	709	560	425	787
2019	223	293	308	1,249	1,413	1,157	964	877	721	547	443	792
2020	189	203	236	1,084	1,270	1,031	759	683	567	438	356	656
2021	234	239	278	1,179	1,327	1,081	875	734	620	475	413	717
2022	207	245	254	1,030	1,200	1,010	831	715	613	481	381	676

Source: Population—Census Bureau

Notes: Population estimates for historical years are revised periodically. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Table 7. Passenger Car Occupants Killed and Injured and Fatality and Injury Rates per Registered Vehicle and VMT, 1975-2022

Year	Registered Passenger Cars	Passenger Car VMT (millions)	Passenger Car Occupants Killed	Fatality Rate per 100,000 Registered Passenger Cars	Fatality Rate per 100 Million Passenger Car VMT	Passenger Car Occupants Injured	Injury Rate per 100,000 Registered Passenger Cars	Injury Rate per 100 Million Passenger Car VMT
1975	94,478,029	1,030,376	25,929	27.44	2.52	*	*	*
1976	97,011,684	1,070,667	26,166	26.97	2.44	*	*	*
1977	98,967,665	1,102,726	26,782	27.06	2.43	*	*	*
1978	101,855,551	1,136,459	28,153	27.64	2.48	*	*	*
1979	103,543,788	1,111,705	27,808	26.86	2.50	*	*	*
1980	104,770,998	1,107,056	27,449	26.20	2.48	*	*	*
1981	106,002,720	1,122,092	26,645	25.14	2.37	*	*	*
1982	106,936,590	1,145,828	23,330	21.82	2.04	*	*	*
1983	109,085,444	1,187,760	22,979	21.07	1.93	*	*	*
1984	112,177,361	1,226,461	23,620	21.06	1.93	*	*	*
1985	116,348,085	1,248,980	23,212	19.95	1.86	*	*	*
1986	117,268,114	1,277,550	24,944	21.27	1.95	*	*	*
1987	119,848,784	1,328,460	25,132	20.97	1.89	*	*	*
1988	121,519,139	1,384,047	25,808	21.24	1.86	2,589,729	2,131	187
1989	122,758,478	1,415,213	25,063	20.42	1.77	2,432,460	1,982	172
1990	123,276,600	1,427,178	24,092	19.54	1.69	2,384,199	1,934	167
1991	123,327,336	1,411,655	22,385	18.15	1.59	2,239,505	1,816	159
1992	120,346,747	1,436,035	21,387	17.77	1.49	2,235,970	1,858	156
1993	121,055,398	1,445,106	21,566	17.81	1.49	2,272,964	1,878	157
1994	121,996,580	1,459,208	21,997	18.03	1.51	2,368,302	1,941	162
1995	123,241,881	1,478,352	22,423	18.19	1.52	2,474,585	2,008	167
1996	124,612,787	1,499,139	22,505	18.06	1.50	2,453,195	1,969	164
1997	124,672,920	1,528,399	22,199	17.81	1.45	2,345,425	1,881	153
1998	125,965,709	1,555,901	21,194	16.83	1.36	2,205,226	1,751	142
1999	127,083,019	1,569,455	20,862	16.42	1.33	2,143,002	1,686	137
2000	127,933,707	1,583,127	20,699	16.18	1.31	2,057,089	1,608	130
2001	129,044,240	1,596,579	20,320	15.75	1.27	1,929,996	1,496	121
2002	130,349,393	1,613,749	20,569	15.78	1.27	1,810,510	1,389	112
2003	131,665,783	1,613,543	19,725	14.98	1.22	1,762,001	1,338	109
2004	133,414,552	1,629,955	19,192	14.39	1.18	1,649,483	1,236	101
2005	135,324,121	1,616,908	18,512	13.68	1.14	1,579,857	1,167	98
2006	137,031,279	1,616,328	17,925	13.08	1.11	1,478,909	1,079	91
2007	137,929,951	1,554,673	16,614	12.05	1.07	1,382,640	1,002	89
2008	139,028,041	1,524,331	14,646	10.53	0.96	1,307,512	940	86
2009	137,203,972	1,510,339	13,135	9.57	0.87	1,219,183	889	81
2010	135,310,480	1,507,716	12,491	9.23	0.83	1,256,101	928	83
2011	126,966,714	1,369,810	12,014	9.46	0.88	1,243,706	980	91
2012	127,077,676	1,377,486	12,361	9.73	0.90	1,330,250	1,047	97
2013	128,936,225	1,384,194	12,037	9.34	0.87	1,298,569	1,007	94
2014	131,138,925	1,396,098	11,947	9.11	0.86	1,294,030	987	93
2015	133,218,366	1,420,869	12,763	9.58	0.90	1,382,271	1,038	97
2016	134,827,696	1,439,678	13,508	10.02	0.94	1,690,359	1,254	117
2017	132,864,363	1,424,056	13,477	10.14	0.95	1,528,666	1,151	107
2018	132,837,515	1,403,760	12,888	9.70	0.92	1,510,852	1,137	108
2019	129,838,156	1,372,622	12,355	9.52	0.90	1,498,083	1,154	109
2020	110,612,958	1,035,519	12,628	11.42	1.22	1,022,587	924	99
2021	107,934,093	1,074,905	13,618	12.62	1.27	1,108,839	1,027	103
2022	104,645,629	1,059,950	12,691	12.13	1.20	969,791	927	91

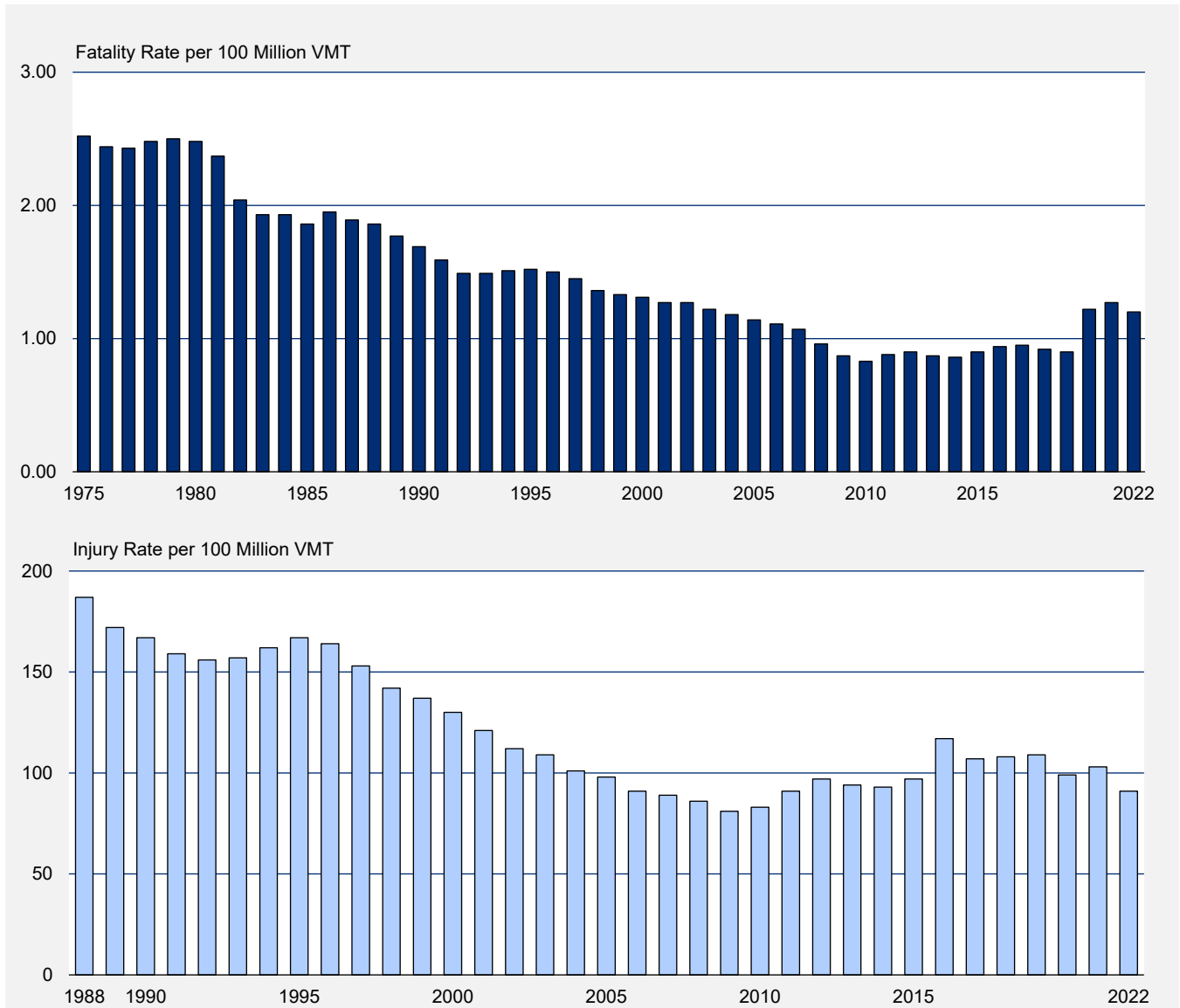
Sources: VMT—FHWA, revised by NHTSA; Registered Passenger Cars—Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co.

*Injury data not available before 1988.

Notes: In 2011 the FHWA implemented an enhanced methodology for estimating registered vehicles and VMT by vehicle type. These revisions were applied to data from 2007 and later. In some cases, the changes were significant and should be considered when comparing registered vehicle counts and/or VMT for 2006 and earlier years with the numbers for 2007 and later years. Due to an enhancement in the passenger vehicle registration data provided by S&P Global Mobility, Copyright © R.L. Polk & Co., for 2011 and later, registration counts for those years changed considerably from the counts provided for 2010 and earlier years. This should be considered when comparing registration numbers and rates per registered vehicles for passenger cars for 2010 and earlier years with those for 2011 and later years. For more details, see pages 6-7 of this report. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

1. Trends

Figure 4. Passenger Car Occupant Fatality and Injury Rates per 100 Million VMT, 1975-2022



Sources: VMT—FHWA, revised by NHTSA

Note: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

1. Trends

Table 8. Light-Truck Occupants Killed and Injured and Fatality and Injury Rates per Registered Vehicle and VMT, 1975-2022

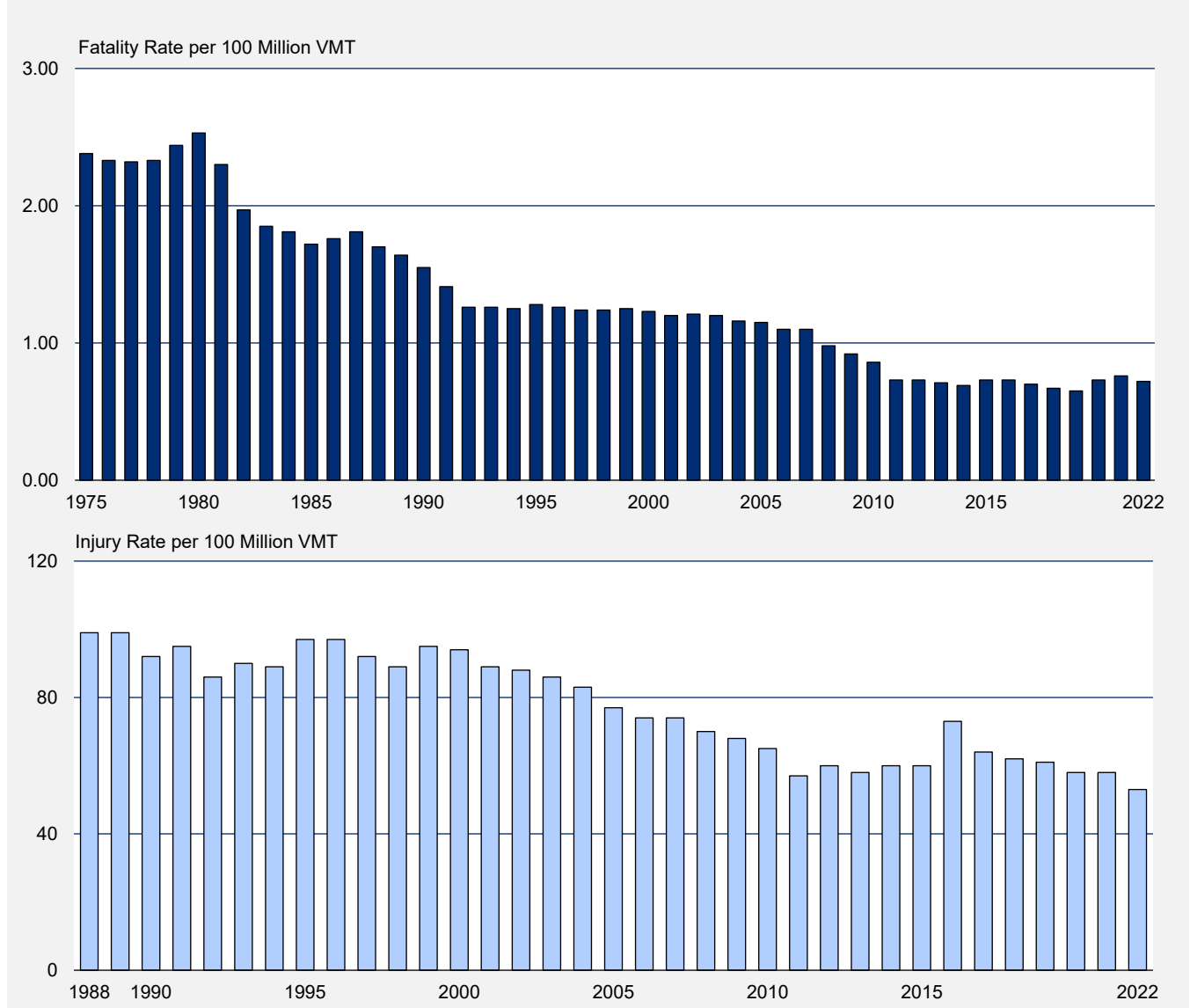
Year	Registered Light Trucks	Light-Truck VMT (millions)	Light-Truck Occupants Killed	Fatality Rate per 100,000 Registered Light Trucks	Fatality Rate per 100 Million Light-Truck VMT	Light-Truck Occupants Injured	Injury Rate per 100,000 Registered Light Trucks	Injury Rate per 100 Million Light-Truck VMT
1975	20,886,680	204,274	4,856	23.25	2.38	*	*	*
1976	22,794,702	233,382	5,438	23.86	2.33	*	*	*
1977	24,432,701	257,108	5,976	24.46	2.32	*	*	*
1978	27,285,497	289,463	6,745	24.72	2.33	*	*	*
1979	28,932,820	293,840	7,178	24.81	2.44	*	*	*
1980	30,060,754	295,475	7,486	24.90	2.53	*	*	*
1981	31,236,287	307,583	7,081	22.67	2.30	*	*	*
1982	32,307,692	322,026	6,359	19.68	1.97	*	*	*
1983	33,068,138	334,937	6,202	18.76	1.85	*	*	*
1984	35,257,788	358,588	6,496	18.42	1.81	*	*	*
1985	37,665,180	388,779	6,689	17.76	1.72	*	*	*
1986	39,763,446	416,532	7,317	18.40	1.76	*	*	*
1987	41,695,017	444,392	8,058	19.33	1.81	*	*	*
1988	44,599,500	488,431	8,306	18.62	1.70	482,033	1,081	99
1989	47,134,148	522,483	8,551	18.14	1.64	516,898	1,097	99
1990	49,916,497	555,659	8,601	17.23	1.55	510,956	1,024	92
1991	52,062,064	595,924	8,391	16.12	1.41	565,376	1,086	95
1992	53,836,046	642,397	8,098	15.04	1.26	549,417	1,021	86
1993	56,573,835	675,353	8,511	15.04	1.26	605,501	1,070	90
1994	59,485,995	711,515	8,904	14.97	1.25	634,089	1,066	89
1995	62,520,872	749,971	9,568	15.30	1.28	727,054	1,163	97
1996	65,438,877	787,255	9,932	15.18	1.26	762,572	1,165	97
1997	67,287,470	824,896	10,249	15.23	1.24	761,511	1,132	92
1998	69,783,500	861,951	10,705	15.34	1.24	765,412	1,097	89
1999	72,929,502	900,667	11,265	15.45	1.25	853,022	1,170	95
2000	75,979,775	940,219	11,526	15.17	1.23	886,198	1,166	94
2001	78,675,630	973,401	11,723	14.90	1.20	865,888	1,101	89
2002	81,643,269	1,010,759	12,274	15.03	1.21	885,373	1,084	88
2003	85,063,823	1,042,444	12,546	14.75	1.20	895,774	1,053	86
2004	89,799,406	1,097,099	12,674	14.11	1.16	905,696	1,009	83
2005	94,787,880	1,132,564	13,037	13.75	1.15	874,137	922	77
2006	98,064,117	1,156,697	12,761	13.01	1.10	859,687	877	74
2007	100,817,496	1,136,361	12,458	12.36	1.10	844,990	838	74
2008	100,862,944	1,105,882	10,816	10.72	0.98	773,276	767	70
2009	102,008,600	1,122,909	10,312	10.11	0.92	762,172	747	68
2010	102,376,147	1,140,740	9,782	9.55	0.86	737,152	720	65
2011	118,702,389	1,280,648	9,302	7.84	0.73	732,764	617	57
2012	118,690,690	1,286,574	9,418	7.93	0.73	766,295	646	60
2013	120,491,485	1,293,536	9,186	7.62	0.71	752,585	625	58
2014	123,470,278	1,314,458	9,103	7.37	0.69	783,906	635	60
2015	127,401,053	1,358,824	9,878	7.75	0.73	808,707	635	60
2016	132,052,102	1,410,040	10,279	7.78	0.73	1,034,963	784	73
2017	135,594,973	1,453,322	10,186	7.51	0.70	937,147	691	64
2018	141,312,896	1,493,323	9,957	7.05	0.67	921,272	652	62
2019	146,751,968	1,551,431	10,017	6.83	0.65	949,902	647	61
2020	164,230,764	1,537,469	11,286	6.87	0.73	884,424	539	58
2021	170,108,546	1,694,094	12,847	7.55	0.76	983,904	578	58
2022	174,027,343	1,762,714	12,729	7.31	0.72	930,748	535	53

Sources: VMT—FHWA, revised by NHTSA; Registered Light Trucks— Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co. *Injury data not available before 1988.

Notes: In 2011 the FHWA implemented an enhanced methodology for estimating registered vehicles and VMT by vehicle type. These revisions were applied to data from 2007 and later. In some cases, the changes were significant and should be considered when comparing registered vehicle counts and/or VMT for 2006 and earlier years with the numbers for 2007 and later years. Due to an enhancement in the passenger vehicle registration data provided by S&P Global Mobility, Copyright © R.L. Polk & Co., for 2011 and later, registration counts for those years changed considerably from the counts provided for 2010 and earlier years. This should be considered when comparing registration numbers and rates per registered vehicles for passenger cars for 2010 and earlier years with those for 2011 and later years. For more details, see pages 6-7 of this report. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

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Figure 5. Light-Truck Occupant Fatality and Injury Rates per 100 Million VMT, 1975-2022



Sources: VMT—FHWA, revised by NHTSA

Note: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

1. Trends

Table 9. Large-Truck Occupants Killed and Injured and Fatality and Injury Rates per Registered Vehicle and VMT, 1975-2022

Year	Registered Large Trucks	Large-Truck VMT (millions)	Large-Truck Occupants Killed	Fatality Rate per 100,000 Registered Large Trucks	Fatality Rate per 100 Million Large-Truck VMT	Large-Truck Occupants Injured	Injury Rate per 100,000 Registered Large Trucks	Injury Rate per 100 Million Large-Truck VMT
1975	5,362,369	81,330	961	17.92	1.18	*	*	*
1976	5,575,185	86,070	1,132	20.30	1.32	*	*	*
1977	5,689,903	95,021	1,287	22.62	1.35	*	*	*
1978	5,859,807	105,739	1,395	23.81	1.32	*	*	*
1979	5,891,571	109,004	1,432	24.31	1.31	*	*	*
1980	5,790,653	108,491	1,262	21.79	1.16	*	*	*
1981	5,716,278	108,702	1,133	19.82	1.04	*	*	*
1982	5,590,415	111,423	944	16.89	0.85	*	*	*
1983	5,508,392	116,132	982	17.83	0.85	*	*	*
1984	5,401,075	121,796	1,074	19.88	0.88	*	*	*
1985	5,996,337	123,504	977	16.29	0.79	*	*	*
1986	5,720,880	126,675	926	16.19	0.73	*	*	*
1987	5,718,266	133,517	852	14.90	0.64	*	*	*
1988	6,136,884	137,985	911	14.84	0.66	37,884	617	27
1989	6,226,482	142,749	858	13.78	0.60	42,016	675	29
1990	6,195,876	146,242	705	11.38	0.48	41,929	677	29
1991	6,172,146	149,543	661	10.71	0.44	28,568	463	19
1992	6,045,205	153,384	585	9.68	0.38	33,653	557	22
1993	6,088,155	159,888	605	9.94	0.38	31,956	525	20
1994	6,587,885	170,216	670	10.17	0.39	30,324	460	18
1995	6,719,421	178,156	648	9.64	0.36	30,613	456	17
1996	7,012,615	182,971	621	8.86	0.34	32,807	468	18
1997	7,083,326	191,477	723	10.21	0.38	31,561	446	16
1998	7,732,270	196,380	742	9.60	0.38	28,241	365	14
1999	7,791,426	202,688	759	9.74	0.37	33,736	433	17
2000	8,022,649	205,520	754	9.40	0.37	30,659	382	15
2001	7,857,675	208,928	708	9.01	0.34	29,699	378	14
2002	7,927,280	214,603	689	8.69	0.32	26,741	337	12
2003	7,756,888	217,876	726	9.36	0.33	26,333	339	12
2004	8,171,364	220,811	766	9.37	0.35	27,594	338	12
2005	8,481,999	222,523	804	9.48	0.36	27,926	329	13
2006	8,819,007	222,513	805	9.13	0.36	23,414	265	11
2007	10,752,019	304,178	805	7.49	0.26	23,360	217	8
2008	10,873,275	310,680	682	6.27	0.22	23,645	217	8
2009	10,973,214	288,306	499	4.55	0.17	16,419	150	6
2010	10,770,054	286,527	530	4.92	0.18	19,937	185	7
2011	10,270,693	267,594	640	6.23	0.24	22,936	223	9
2012	10,659,380	269,207	697	6.54	0.26	25,372	238	9
2013	10,597,356	275,017	695	6.56	0.25	24,621	232	9
2014	10,905,956	279,132	656	6.02	0.24	27,146	249	10
2015	11,203,184	279,844	665	5.94	0.24	30,102	269	11
2016	11,498,561	287,895	815	7.09	0.28	36,183	315	13
2017	12,229,216	297,593	878	7.18	0.30	39,992	327	13
2018	13,233,910	304,864	890	6.73	0.29	39,200	296	13
2019	13,085,643	300,050	893	6.82	0.30	45,688	349	15
2020	12,899,372	297,649	822	6.37	0.28	41,566	322	14
2021	13,856,404	327,026	1,011	7.30	0.31	42,169	304	13
2022	14,333,821	331,272	1,097	7.65	0.33	41,874	292	13

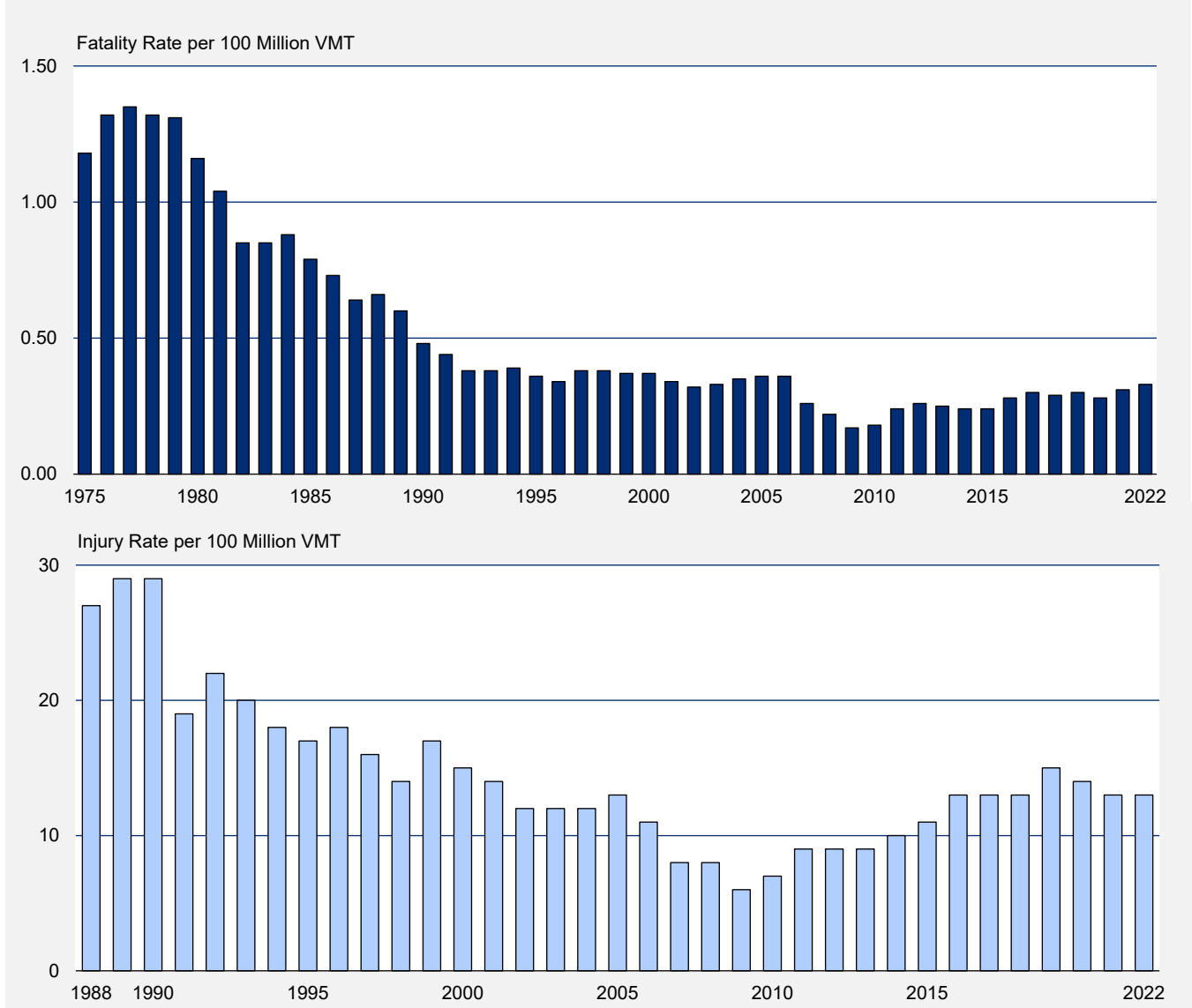
Source: Registered Large Trucks and VMT—FHWA

*Injury data not available before 1988.

Notes: In 2011 the FHWA implemented an enhanced methodology for estimating registered vehicles and VMT by vehicle type. These revisions were applied to data from 2007 and later. In some cases, the changes were significant and should be considered when comparing registered vehicle counts and/or VMT for 2006 and earlier years with the numbers for 2007 and later years. For more details, see pages 6-7 of this report. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

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Figure 6. Large-Truck Occupant Fatality and Injury Rates per 100 Million VMT, 1975-2022



Sources: VMT—FHWA

Note: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

1. Trends

Table 10. Motorcyclists Killed and Injured and Fatality and Injury Rates per Registered Vehicle and VMT, 1975-2022

Year	Registered Motorcycles	Motorcycle VMT (millions)	Motorcyclists Killed	Fatality Rate per 100,000 Registered Motorcycles	Fatality Rate per 100 Million Motorcycle VMT	Motorcyclists Injured	Injury Rate per 100,000 Registered Motorcycles	Injury Rate per 100 Million Motorcycle VMT
1975	4,964,070	5,629	3,189	64.24	56.65	*	*	*
1976	4,933,332	6,003	3,312	67.14	55.17	*	*	*
1977	4,933,256	6,349	4,104	83.19	64.64	*	*	*
1978	4,867,855	7,158	4,577	94.02	63.94	*	*	*
1979	5,422,132	8,637	4,894	90.26	56.66	*	*	*
1980	5,693,940	10,214	5,144	90.34	50.36	*	*	*
1981	5,831,132	10,690	4,906	84.13	45.89	*	*	*
1982	5,753,858	9,910	4,453	77.39	44.93	*	*	*
1983	5,585,112	8,760	4,265	76.36	48.69	*	*	*
1984	5,479,822	8,784	4,608	84.09	52.46	*	*	*
1985	5,444,404	9,086	4,564	83.83	50.23	*	*	*
1986	5,198,993	9,397	4,566	87.82	48.59	*	*	*
1987	4,885,772	9,506	4,036	82.61	42.46	*	*	*
1988	4,584,284	10,024	3,662	79.88	36.53	105,257	2,296	1,050
1989	4,420,420	10,371	3,141	71.06	30.29	83,181	1,882	802
1990	4,259,462	9,557	3,244	76.16	33.94	84,635	1,987	886
1991	4,177,365	9,178	2,806	67.17	30.57	80,909	1,937	882
1992	4,065,118	9,557	2,395	58.92	25.06	65,166	1,603	682
1993	3,977,856	9,906	2,449	61.57	24.72	59,731	1,502	603
1994	3,756,555	10,240	2,320	61.76	22.66	57,629	1,534	563
1995	3,897,191	9,797	2,227	57.14	22.73	57,878	1,485	591
1996	3,871,599	9,920	2,161	55.82	21.78	55,385	1,431	558
1997	3,826,373	10,081	2,116	55.30	20.99	52,734	1,378	523
1998	3,879,450	10,283	2,294	59.13	22.31	49,218	1,269	479
1999	4,152,433	10,584	2,483	59.80	23.46	49,913	1,202	472
2000	4,346,068	10,469	2,897	66.66	27.67	57,792	1,330	552
2001	4,903,056	9,633	3,197	65.20	33.19	60,296	1,230	626
2002	5,004,156	9,552	3,270	65.35	34.23	65,005	1,299	681
2003	5,370,035	9,576	3,714	69.16	38.78	67,413	1,255	704
2004	5,767,934	10,122	4,028	69.83	39.79	76,239	1,322	753
2005	6,227,146	10,454	4,576	73.48	43.77	87,564	1,406	838
2006	6,678,958	12,049	4,837	72.42	40.14	87,866	1,316	729
2007	7,138,476	21,396	5,174	72.48	24.18	103,301	1,447	483
2008	7,752,926	20,811	5,312	68.52	25.52	96,041	1,239	461
2009	7,929,724	20,822	4,469	56.36	21.46	89,498	1,129	430
2010	8,009,503	18,513	4,518	56.41	24.40	82,300	1,028	445
2011	8,437,502	18,542	4,630	54.87	24.97	81,706	968	441
2012	8,454,939	21,385	4,986	58.97	23.32	93,251	1,103	436
2013	8,404,687	20,366	4,692	55.83	23.04	88,760	1,056	436
2014	8,417,718	19,970	4,594	54.58	23.00	91,987	1,093	461
2015	8,600,936	19,606	5,029	58.47	25.65	88,738	1,032	453
2016	8,679,380	20,445	5,337	61.49	26.10	104,442	1,203	511
2017	8,664,108	20,149	5,226	60.32	25.94	88,592	1,023	440
2018	8,659,741	20,076	5,038	58.18	25.09	81,859	945	408
2019	8,596,314	19,688	5,044	58.68	25.62	83,814	975	426
2020	8,347,435	17,947	5,620	67.33	31.31	80,662	966	449
2021	9,795,491	19,642	6,143	62.71	31.27	84,898	867	432
2022	9,567,664	23,765	6,218	64.99	26.16	82,687	864	348

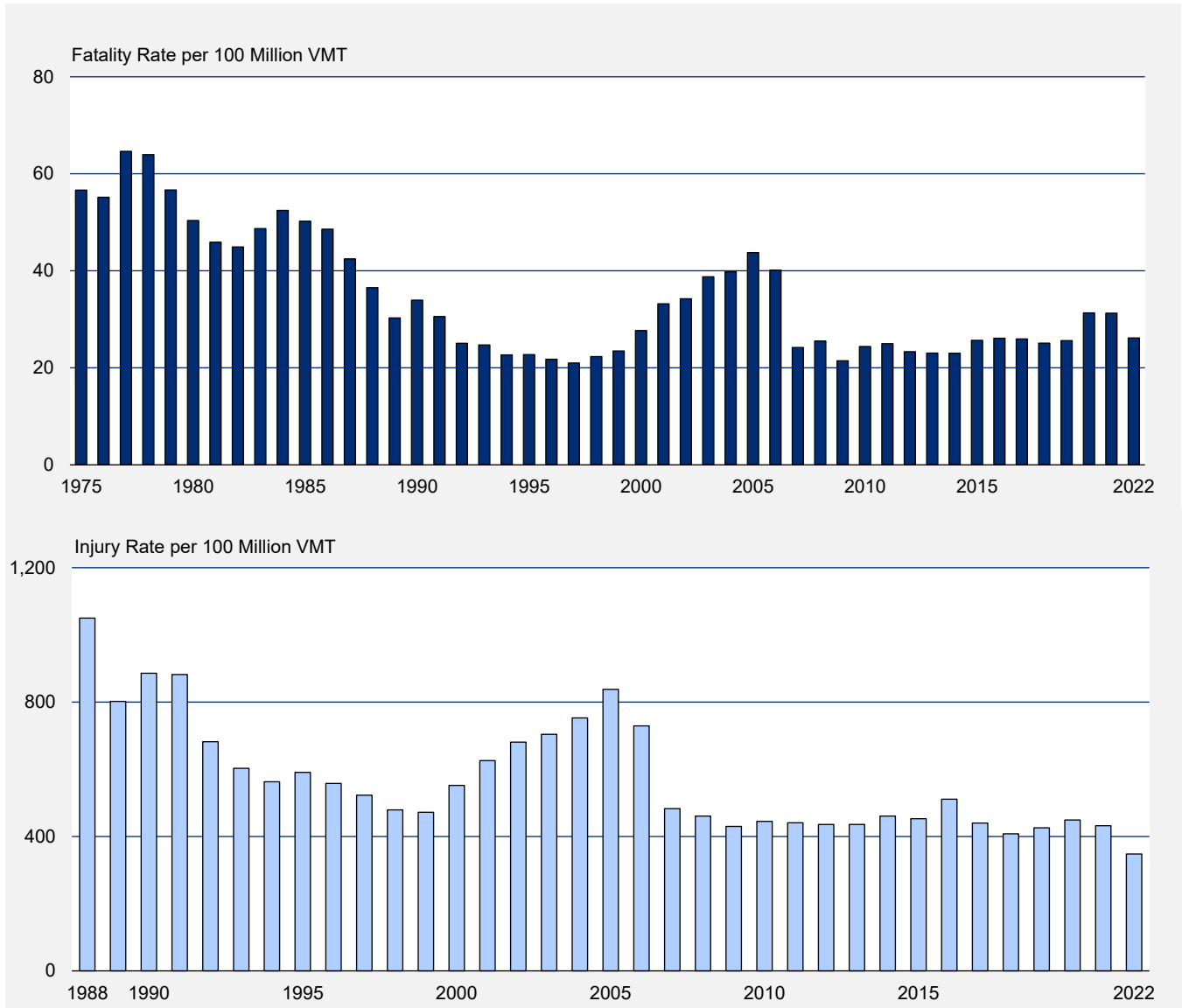
Source: Registered Motorcycles and VMT—FHWA

*Injury data not available before 1988.

Notes: In 2011 the FHWA implemented an enhanced methodology for estimating registered vehicles and VMT by vehicle type. These revisions were applied to data from 2007 and later. In some cases, the changes were significant and should be considered when comparing registered vehicle counts and/or VMT for 2006 and earlier years with the numbers for 2007 and later years. For more details, see pages 6-7 of this report. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

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Figure 7. Motorcyclist Fatality and Injury Rates per 100 Million VMT, 1975-2022



Source: VMT—FHWA

Note: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

1. Trends

Table 11. People Killed and Injured in Crashes Involving Large Trucks, by Person Type and Crash Type, 1975-2022

Year	Person Type					Total
	Truck Occupants by Crash Type			Occupants of Other Vehicles	Nonoccupants	
	Single Vehicle	Multi-Vehicle	Total			
Killed						
1975	643	318	961	3,106	416	4,483
1976	774	358	1,132	3,384	492	5,008
1977	884	403	1,287	3,925	511	5,723
1978	929	466	1,395	4,354	607	6,356
1979	967	465	1,432	4,615	655	6,702
1980	861	401	1,262	4,084	625	5,971
1981	785	348	1,133	4,126	547	5,806
1982	639	305	944	3,790	495	5,229
1983	676	306	982	3,941	568	5,491
1984	755	319	1,074	4,036	530	5,640
1985	634	343	977	4,227	530	5,734
1986	603	323	926	4,088	565	5,579
1987	571	281	852	4,194	552	5,598
1988	585	326	911	4,250	518	5,679
1989	550	308	858	4,142	490	5,490
1990	485	220	705	4,071	496	5,272
1991	448	213	661	3,705	455	4,821
1992	396	189	585	3,460	417	4,462
1993	389	216	605	3,855	396	4,856
1994	451	219	670	4,013	461	5,144
1995	425	223	648	3,846	424	4,918
1996	412	209	621	4,087	434	5,142
1997	499	224	723	4,223	452	5,398
1998	486	256	742	4,215	438	5,395
1999	480	279	759	4,180	441	5,380
2000	484	270	754	4,114	414	5,282
2001	474	234	708	3,962	441	5,111
2002	449	240	689	3,886	364	4,939
2003	457	269	726	3,919	391	5,036
2004	469	297	766	4,042	427	5,235
2005	478	326	804	3,971	465	5,240
2006	500	305	805	3,797	425	5,027
2007	502	303	805	3,608	409	4,822
2008	430	252	682	3,151	412	4,245
2009	333	166	499	2,558	323	3,380
2010	339	191	530	2,797	359	3,686
2011	408	232	640	2,713	428	3,781
2012	423	274	697	2,857	390	3,944
2013	431	264	695	2,845	441	3,981
2014	405	251	656	2,859	393	3,908
2015	395	270	665	3,017	413	4,095
2016	520	295	815	3,351	512	4,678
2017	525	353	878	3,535	493	4,906
2018	538	352	890	3,563	553	5,006
2019	494	399	893	3,569	570	5,032
2020	504	318	822	3,501	622	4,945
2021	584	427	1,011	4,176	634	5,821
2022	613	484	1,097	4,167	672	5,936

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Table 11. People Killed and Injured in Crashes Involving Large Trucks, by Person Type and Crash Type, 1975-2022 (Continued)

Year	Person Type					Total
	Truck Occupants by Crash Type			Occupants of Other Vehicles	Nonoccupants	
	Single Vehicle	Multi-Vehicle	Total			
Injured						
1988	17,135	20,749	37,884	89,845	4,266	131,995
1989	20,301	21,715	42,016	111,233	1,969	155,219
1990	15,951	25,978	41,929	106,554	2,325	150,808
1991	13,066	15,502	28,568	80,593	2,496	111,656
1992	13,517	20,136	33,653	102,345	3,364	139,362
1993	12,979	18,977	31,956	95,857	5,873	133,686
1994	10,680	19,644	30,324	99,081	3,387	132,792
1995	14,768	15,845	30,613	85,426	2,504	118,543
1996	15,239	17,568	32,807	95,894	2,574	131,276
1997	13,919	17,643	31,561	99,346	2,048	132,955
1998	13,608	14,633	28,241	97,149	2,050	127,440
1999	15,156	18,579	33,736	105,703	4,376	143,815
2000	16,475	14,185	30,659	105,963	3,146	139,768
2001	13,419	16,280	29,699	99,418	2,566	131,684
2002	12,319	14,423	26,741	100,326	3,838	130,905
2003	10,783	15,550	26,333	91,621	3,185	121,139
2004	13,264	14,330	27,594	86,447	3,709	117,750
2005	10,410	17,516	27,926	85,225	2,176	115,326
2006	10,625	12,789	23,414	81,684	2,253	107,351
2007	9,931	13,429	23,360	76,400	2,303	102,063
2008	9,991	13,654	23,645	64,882	2,866	91,393
2009	7,392	9,026	16,419	56,278	1,379	74,076
2010	9,106	10,830	19,937	58,948	2,010	80,894
2011	7,425	15,511	22,936	64,412	1,674	89,021
2012	8,893	16,478	25,372	76,342	2,740	104,454
2013	8,949	15,673	24,621	69,221	2,254	96,097
2014	10,280	16,865	27,146	82,282	2,389	111,817
2015	10,175	19,927	30,102	85,172	2,561	117,835
2016	12,941	23,241	36,183	94,958	3,587	134,727
2017	14,550	25,442	39,992	105,509	2,808	148,309
2018	13,480	25,719	39,200	108,490	3,480	151,170
2019	15,199	30,490	45,688	109,515	4,156	159,359
2020	14,969	26,597	41,566	97,595	2,452	141,613
2021	13,823	28,346	42,169	109,795	2,849	154,813
2022	17,161	24,713	41,874	115,201	3,534	160,608

Notes: Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

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Table 12. Nonoccupant Fatality and Injury Rates per Population, by Age Group, 1975-2022

Year	Age Group											Total
	<5	5-9	10-14	15-20	21-24	25-34	35-44	45-54	55-64	65-74	>74	
Fatality Rate per 100,000 Population												
1975	3.64	5.99	3.91	3.78	2.95	2.38	2.74	3.17	3.66	6.05	10.76	3.98
1976	3.52	5.62	3.63	3.77	3.01	2.42	2.62	3.30	3.60	5.58	10.12	3.86
1977	2.99	5.35	3.56	4.01	3.15	2.67	2.65	3.20	4.05	5.80	10.57	3.96
1978	3.14	5.45	3.68	4.04	3.48	2.89	2.77	3.33	3.77	5.36	8.93	3.95
1979	2.87	5.16	3.57	4.44	3.97	3.13	2.98	3.33	3.68	5.50	9.17	4.07
1980	2.67	4.68	3.48	4.44	4.34	3.17	2.80	3.39	3.69	5.00	9.89	4.03
1981	2.14	4.44	3.27	4.06	4.18	3.36	2.82	3.22	3.42	4.88	8.74	3.87
1982	2.15	3.89	2.98	4.03	4.27	3.06	3.00	3.05	3.05	4.45	7.41	3.58
1983	2.03	3.69	3.06	3.56	3.83	2.91	2.46	2.80	3.12	3.77	7.37	3.31
1984	1.92	3.61	3.09	3.52	3.63	2.95	2.58	2.93	3.34	4.01	7.64	3.38
1985	2.05	3.67	2.83	3.39	3.38	2.71	2.65	2.69	3.36	3.90	7.35	3.27
1986	1.89	3.58	3.11	3.49	3.54	2.93	2.51	2.98	2.86	3.64	7.34	3.27
1987	1.66	3.63	3.18	3.18	3.39	2.83	2.69	2.88	3.14	3.79	7.20	3.23
1988	1.69	3.65	2.84	2.95	3.37	2.94	2.70	2.77	3.04	3.94	7.70	3.24
1989	1.54	3.06	2.55	2.56	2.90	3.00	2.73	2.61	3.18	3.49	7.10	3.04
1990	1.60	2.65	2.23	2.59	2.84	2.97	2.77	2.63	3.09	3.67	6.97	2.99
1991	1.43	2.40	2.32	2.50	2.86	2.65	2.36	2.44	2.67	3.08	5.93	2.68
1992	1.29	2.25	2.02	2.22	2.21	2.38	2.39	2.41	2.56	3.10	5.42	2.50
1993	1.35	2.19	2.21	2.10	2.25	2.63	2.51	2.25	2.52	2.95	5.47	2.55
1994	1.31	2.20	2.13	1.99	2.22	2.34	2.46	2.35	2.41	2.82	5.50	2.46
1995	1.12	2.02	2.04	2.06	2.38	2.41	2.60	2.38	2.50	2.97	5.21	2.48
1996	1.22	1.87	1.90	1.99	2.38	2.17	2.49	2.40	2.63	2.94	4.76	2.40
1997	0.97	1.73	1.81	2.08	2.15	2.22	2.47	2.39	2.53	2.99	4.57	2.35
1998	0.96	1.42	1.63	1.83	2.12	2.06	2.46	2.41	2.61	2.74	4.68	2.26
1999	0.94	1.45	1.47	1.78	2.01	1.88	2.41	2.26	2.35	2.78	4.14	2.14
2000	0.88	1.17	1.33	1.59	1.75	1.75	2.28	2.28	2.22	2.40	3.82	1.98
2001	0.70	1.06	1.30	1.73	2.01	1.68	2.36	2.38	2.13	2.44	4.11	2.02
2002	0.71	0.94	1.10	1.63	1.71	1.77	2.24	2.37	2.10	2.76	3.68	1.96
2003	0.62	0.89	1.16	1.76	1.78	1.63	2.25	2.23	2.26	2.34	3.55	1.91
2004	0.63	0.87	1.06	1.51	1.84	1.72	2.15	2.39	2.03	2.41	3.55	1.89
2005	0.64	0.78	1.00	1.62	2.11	1.81	2.25	2.58	2.14	2.50	3.57	1.98
2006	0.59	0.81	0.88	1.49	1.97	1.87	2.11	2.61	2.19	2.32	3.35	1.93
2007	0.56	0.63	0.88	1.58	2.00	1.80	2.09	2.48	1.86	2.32	3.11	1.85
2008	0.53	0.55	0.78	1.56	1.94	1.67	1.86	2.47	2.02	2.03	2.76	1.75
2009	0.51	0.49	0.71	1.23	1.80	1.53	1.76	2.17	1.89	2.02	2.50	1.59
2010	0.52	0.47	0.66	1.47	1.89	1.63	1.64	2.17	2.06	2.01	2.79	1.65
2011	0.40	0.47	0.68	1.42	2.09	1.70	1.63	2.43	2.12	2.19	2.65	1.71
2012	0.49	0.54	0.70	1.56	2.19	1.85	1.72	2.54	2.36	2.19	2.96	1.84
2013	0.54	0.48	0.53	1.41	2.05	1.79	1.79	2.48	2.49	2.13	2.77	1.81
2014	0.46	0.49	0.50	1.53	1.94	1.87	1.79	2.34	2.61	2.21	2.86	1.84
2015	0.48	0.43	0.63	1.53	2.15	1.99	2.23	2.87	2.96	2.32	2.72	2.04
2016	0.46	0.45	0.70	1.67	2.34	2.27	2.33	2.95	3.17	2.67	3.09	2.23
2017	0.48	0.35	0.64	1.58	1.99	2.27	2.34	2.98	3.25	2.47	3.07	2.19
2018	0.40	0.40	0.43	1.52	2.32	2.42	2.57	3.01	3.42	2.71	3.13	2.28
2019	0.38	0.35	0.55	1.26	2.03	2.51	2.63	2.91	3.45	2.81	2.99	2.26
2020	0.38	0.32	0.52	1.29	2.10	2.70	2.93	3.05	3.61	2.66	2.59	2.34
2021	0.36	0.32	0.51	1.38	2.43	3.21	3.49	3.20	3.93	3.13	2.63	2.63
2022	0.44	0.36	0.57	1.32	2.25	3.18	3.58	3.33	3.96	3.25	2.83	2.69

Source: Population—Census Bureau

Note: Population estimates for historical years are revised periodically.

1. Trends

Table 12. Nonoccupant Fatality and Injury Rates per Population, by Age Group, 1975-2022 (Continued)

Year	Age Group											Total
	<5	5-9	10-14	15-20	21-24	25-34	35-44	45-54	55-64	65-74	>74	
Injury Rate per 100,000 Population												
1988	35	178	195	129	118	74	46	38	35	25	45	79
1989	32	180	190	144	96	69	53	43	43	33	39	80
1990	34	139	179	138	109	77	53	37	26	29	38	75
1991	27	138	164	101	91	70	41	36	31	31	30	66
1992	33	120	171	98	98	57	45	34	29	30	27	63
1993	28	117	181	96	94	66	49	45	26	27	38	66
1994	24	113	158	118	88	60	47	36	33	24	29	63
1995	33	104	159	106	86	62	52	27	21	30	26	62
1996	31	91	152	102	80	56	38	36	26	26	22	57
1997	25	93	137	80	68	51	51	34	29	29	22	55
1998	19	77	119	80	68	50	40	33	25	21	16	48
1999	20	85	131	78	57	57	38	38	26	27	22	51
2000	18	99	94	67	72	51	41	30	29	21	20	48
2001	17	64	108	78	52	46	39	36	30	29	18	46
2002	16	60	98	62	37	55	40	29	35	26	21	44
2003	15	59	88	71	50	47	42	32	26	24	22	43
2004	19	55	80	64	53	42	39	35	21	22	19	40
2005	17	62	71	75	58	34	28	34	37	22	16	40
2006	11	37	69	70	42	37	35	33	34	23	19	37
2007	12	44	73	70	63	48	38	38	24	23	22	41
2008	12	36	77	86	65	40	38	40	35	25	24	43
2009	14	39	59	66	72	47	23	38	29	20	18	38
2010	12	35	73	69	66	49	38	40	30	29	22	42
2011	11	31	54	86	64	43	33	39	37	27	21	41
2012	11	33	63	71	67	52	45	41	37	28	19	43
2013	8	23	49	71	81	53	36	40	29	22	21	40
2014	10	21	42	72	70	51	39	36	36	28	19	39
2015	9	18	47	66	62	46	38	45	38	31	16	39
2016	14	28	57	94	80	69	54	51	47	32	21	51
2017	9	22	49	73	65	52	44	41	40	25	18	41
2018	8	19	45	66	64	56	43	45	47	28	17	42
2019	7	23	48	71	67	54	45	40	48	31	20	43
2020	10	15	31	40	45	44	40	34	32	25	15	32
2021	7	16	35	50	52	45	41	37	38	27	19	35
2022	7	20	52	61	51	51	42	42	39	30	19	39

Source: Population—Census Bureau

Notes: Population estimates for historical years are revised periodically. Estimates for people injured from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Table 13. People Killed, by Highest Driver BAC in the Crash, 1982-2022

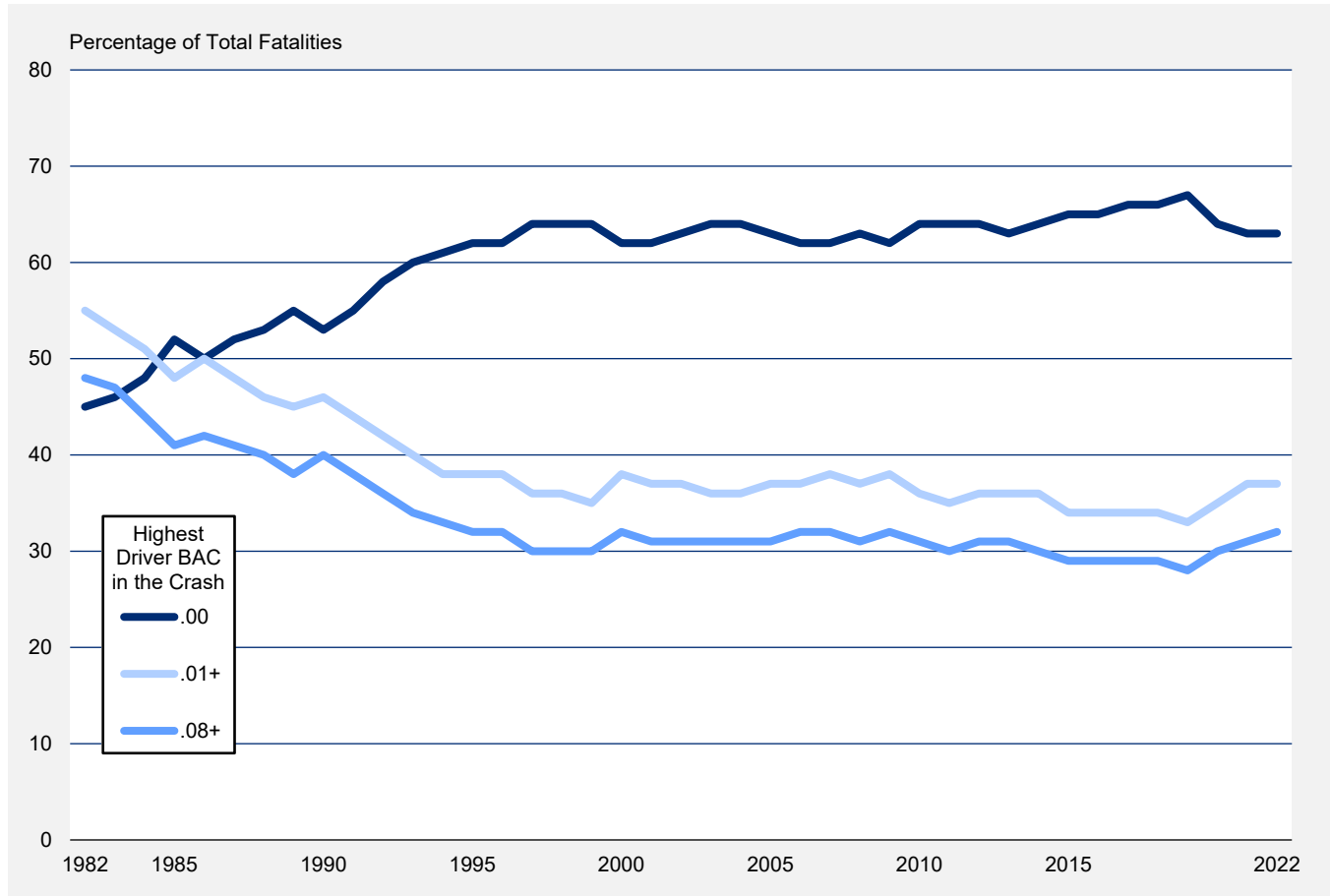
Year	BAC = .00		BAC = .01-.07		Alcohol-Impaired-Driving Fatalities (BAC = .08+)		BAC = .01+		Total Killed*	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1982	19,771	45	2,912	7	21,113	48	24,025	55	43,945	100
1983	19,787	46	2,588	6	20,051	47	22,639	53	42,589	100
1984	21,429	48	3,007	7	19,638	44	22,645	51	44,257	100
1985	22,589	52	2,974	7	18,125	41	21,098	48	43,825	100
1986	22,896	50	3,487	8	19,554	42	23,041	50	46,087	100
1987	24,186	52	3,238	7	18,813	41	22,051	48	46,390	100
1988	25,164	53	3,156	7	18,611	40	21,767	46	47,087	100
1989	25,152	55	2,793	6	17,521	38	20,314	45	45,582	100
1990	23,823	53	2,901	7	17,705	40	20,607	46	44,599	100
1991	23,025	55	2,480	6	15,827	38	18,307	44	41,508	100
1992	22,726	58	2,352	6	14,049	36	16,401	42	39,250	100
1993	23,979	60	2,300	6	13,739	34	16,039	40	40,150	100
1994	24,948	61	2,236	5	13,390	33	15,626	38	40,716	100
1995	25,768	62	2,416	6	13,478	32	15,893	38	41,817	100
1996	26,052	62	2,415	6	13,451	32	15,866	38	42,065	100
1997	26,902	64	2,216	5	12,757	30	14,973	36	42,013	100
1998	26,477	64	2,353	6	12,546	30	14,899	36	41,501	100
1999	26,798	64	2,235	5	12,555	30	14,790	35	41,717	100
2000	26,082	62	2,422	6	13,324	32	15,746	38	41,945	100
2001	26,334	62	2,441	6	13,290	31	15,731	37	42,196	100
2002	27,080	63	2,321	5	13,472	31	15,793	37	43,005	100
2003	27,328	64	2,327	5	13,096	31	15,423	36	42,884	100
2004	27,413	64	2,212	5	13,099	31	15,311	36	42,836	100
2005	27,423	63	2,404	6	13,582	31	15,985	37	43,510	100
2006	26,633	62	2,479	6	13,491	32	15,970	37	42,708	100
2007	25,611	62	2,494	6	13,041	32	15,534	38	41,259	100
2008	23,499	63	2,115	6	11,711	31	13,826	37	37,423	100
2009	21,051	62	1,972	6	10,759	32	12,731	38	33,883	100
2010	21,005	64	1,771	5	10,136	31	11,906	36	32,999	100
2011	20,848	64	1,662	5	9,865	30	11,527	35	32,479	100
2012	21,563	64	1,782	5	10,336	31	12,118	36	33,782	100
2013	20,865	63	1,834	6	10,084	31	11,918	36	32,893	100
2014	20,913	64	1,800	5	9,943	30	11,743	36	32,744	100
2015	23,165	65	1,930	5	10,280	29	12,210	34	35,484	100
2016	24,762	65	1,984	5	10,967	29	12,951	34	37,806	100
2017	24,589	66	1,895	5	10,880	29	12,775	34	37,473	100
2018	24,186	66	1,850	5	10,710	29	12,560	34	36,835	100
2019	24,251	67	1,834	5	10,196	28	12,029	33	36,355	100
2020	25,121	64	2,073	5	11,727	30	13,800	35	39,007	100
2021	27,229	63	2,324	5	13,617	31	15,941	37	43,230	100
2022	26,580	63	2,337	5	13,524	32	15,861	37	42,514	100

*Includes fatalities in crashes in which there was no driver present.

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Figure 8. Proportion of People Killed, by Highest Driver BAC in the Crash, 1982-2022



1. Trends

Table 14. People Killed and Percentage Alcohol-Impaired Driving During Holiday Periods, 1982-2022

Year	Holiday Period**					
	New Year's Day		Memorial Day		Fourth of July	
	Killed	Percentage Alcohol-Impaired Driving*	Killed	Percentage Alcohol-Impaired Driving*	Killed	Percentage Alcohol-Impaired Driving*
1982	***	***	498 (3)	58	600 (3)	59
1983	375 (3)	60	539 (3)	55	620 (3)	55
1984	346 (3)	55	527 (3)	57	223 (1)	55
1985	496 (4)	50	557 (3)	51	689 (4)	49
1986	223 (1)	53	616 (3)	52	611 (3)	55
1987	535 (4)	48	519 (3)	51	556 (3)	48
1988	407 (3)	49	529 (3)	51	631 (3)	51
1989	443 (3)	41	594 (3)	47	748 (4)	47
1990	421 (3)	44	589 (3)	50	268 (1)	55
1991	441 (4)	47	533 (3)	50	718 (4)	45
1992	164 (1)	55	438 (3)	46	535 (3)	45
1993	370 (3)	46	454 (3)	40	525 (3)	42
1994	372 (3)	47	482 (3)	41	519 (3)	44
1995	392 (3)	38	483 (3)	40	661 (4)	37
1996	420 (3)	40	514 (3)	43	629 (4)	36
1997	192 (1)	53	511 (3)	40	508 (3)	40
1998	545 (4)	39	393 (3)	40	479 (3)	43
1999	354 (3)	43	500 (3)	42	509 (3)	35
2000	469 (3)	47	466 (3)	46	717 (4)	39
2001	357 (3)	40	515 (3)	44	207 (1)	44
2002	575 (4)	41	494 (3)	37	685 (4)	36
2003	220 (1)	49	481 (3)	37	519 (3)	43
2004	563 (4)	40	514 (3)	38	524 (3)	40
2005	472 (3)	38	532 (3)	39	591 (3)	44
2006	456 (3)	42	511 (3)	40	659 (4)	37
2007	391 (3)	40	492 (3)	37	202 (1)	45
2008	424 (4)	41	425 (3)	41	494 (3)	44
2009	467 (4)	40	473 (3)	42	412 (3)	39
2010	297 (3)	48	399 (3)	40	393 (3)	38
2011	318 (3)	43	408 (3)	40	429 (3)	37
2012	356 (3)	39	379 (3)	44	180 (1)	45
2013	366 (4)	44	385 (3)	38	513 (4)	39
2014	153 (1)	51	376 (3)	37	401 (3)	41
2015	391 (4)	36	428 (3)	39	410 (3)	35
2016	332 (3)	37	449 (3)	37	457 (3)	42
2017	375 (3)	37	403 (3)	37	603 (4)	38
2018	331 (3)	39	439 (3)	38	194 (1)	41
2019	438 (4)	36	464 (3)	37	516 (4)	39
2020	153 (1)	52	405 (3)	42	494 (3)	41
2021	405 (3)	42	482 (3)	41	537 (3)	41
2022	420 (3)	37	502 (3)	43	487 (3)	40

*Highest BAC among drivers involved in the crash was .08 g/dL or greater.

**The number of whole days in the holiday period is shown in parentheses. The length of the holiday period depends on the day on which the legal holiday falls, as follows:

- If the holiday falls on Monday, the holiday period is from 6 p.m. Friday to 5:59 a.m. Tuesday.
- If the holiday falls on Tuesday, the holiday period is from 6 p.m. Friday to 5:59 a.m. Wednesday.
- If the holiday falls on Wednesday, the holiday period is from 6 p.m. Tuesday to 5:59 a.m. Thursday.
- If the holiday falls on Thursday, the holiday period is from 6 p.m. Wednesday to 5:59 a.m. Monday.
- If the holiday falls on Friday, the holiday period is from 6 p.m. Thursday to 5:59 a.m. Monday.
- Number of days and number of hours incorporated: 1 day (36 hours), 2 days (60 hours), 3 days (84 hours), 4 days (108 hours).

***No data available.

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Table 14. People Killed and Percentage Alcohol-Impaired Driving During Holiday Periods, 1982-2022 (Continued)

Year	Holiday Period**					
	Labor Day		Thanksgiving		Christmas	
	Killed	Percentage Alcohol-Impaired Driving*	Killed	Percentage Alcohol-Impaired Driving*	Killed	Percentage Alcohol-Impaired Driving*
1982	628 (3)	55	601 (4)	51	458 (3)	50
1983	636 (3)	60	533 (4)	50	352 (3)	54
1984	609 (3)	53	558 (4)	51	643 (4)	54
1985	605 (3)	51	566 (4)	47	152 (1)	47
1986	663 (3)	52	598 (4)	48	508 (4)	48
1987	630 (3)	53	659 (4)	45	409 (3)	47
1988	592 (3)	52	601 (4)	47	511 (3)	48
1989	588 (3)	48	561 (4)	47	553 (3)	49
1990	599 (3)	52	563 (4)	44	567 (4)	42
1991	577 (3)	46	546 (4)	42	135 (1)	36
1992	460 (3)	42	403 (4)	47	410 (3)	39
1993	522 (3)	47	569 (4)	38	402 (3)	43
1994	494 (3)	46	575 (4)	40	455 (3)	40
1995	511 (3)	40	527 (4)	41	358 (3)	40
1996	525 (3)	43	588 (4)	38	167 (1)	37
1997	507 (3)	42	571 (4)	31	480 (4)	33
1998	464 (3)	40	602 (4)	38	364 (3)	41
1999	485 (3)	38	581 (4)	36	485 (3)	41
2000	529 (3)	43	509 (4)	41	442 (3)	40
2001	481 (3)	40	590 (4)	39	604 (4)	39
2002	543 (3)	45	551 (4)	36	131 (1)	40
2003	507 (3)	38	562 (4)	36	520 (4)	37
2004	502 (3)	38	574 (4)	30	389 (3)	38
2005	507 (3)	40	629 (4)	37	402 (3)	40
2006	508 (3)	37	635 (4)	34	395 (3)	42
2007	520 (3)	42	553 (4)	35	478 (4)	38
2008	493 (3)	40	507 (4)	35	426 (4)	32
2009	362 (3)	38	413 (4)	34	262 (3)	36
2010	406 (3)	35	431 (4)	40	264 (3)	35
2011	382 (3)	37	384 (4)	32	267 (3)	36
2012	394 (3)	38	421 (4)	41	374 (4)	35
2013	424 (3)	39	411 (4)	34	106 (1)	38
2014	403 (3)	42	467 (4)	34	406 (4)	34
2015	463 (3)	34	455 (4)	35	330 (3)	36
2016	438 (3)	37	497 (4)	36	365 (3)	35
2017	383 (3)	37	536 (4)	36	356 (3)	38
2018	448 (3)	36	442 (4)	31	435 (4)	35
2019	456 (3)	39	424 (4)	29	147 (1)	37
2020	533 (3)	38	523 (4)	36	347 (3)	37
2021	535 (3)	42	539 (4)	37	402 (3)	36
2022	490 (3)	39	528 (4)	35	331 (3)	38

*Highest BAC among drivers involved in the crash was .08 g/dL or greater.

**The number of whole days in the holiday period is shown in parentheses. The length of the holiday period depends on the day on which the legal holiday falls, as follows:

- If the holiday falls on Monday, the holiday period is from 6 p.m. Friday to 5:59 a.m. Tuesday.
- If the holiday falls on Tuesday, the holiday period is from 6 p.m. Friday to 5:59 a.m. Wednesday.
- If the holiday falls on Wednesday, the holiday period is from 6 p.m. Tuesday to 5:59 a.m. Thursday.
- If the holiday falls on Thursday, the holiday period is from 6 p.m. Wednesday to 5:59 a.m. Monday.
- If the holiday falls on Friday, the holiday period is from 6 p.m. Thursday to 5:59 a.m. Monday.
- Number of days and number of hours incorporated: 1 day (36 hours), 2 days (60 hours), 3 days (84 hours), 4 days (108 hours).

***No data available.

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Table 15. Drivers in Fatal Crashes, by Their BACs and Time of Day, 1982-2022

Year	Day			Night			Total Drivers*		
	Total	Percent		Total	Percent		Total	Percent	
		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+
1982	23,725	19	15	32,085	57	49	56,029	41	35
1983	24,381	18	15	30,037	57	50	54,656	39	34
1984	26,415	17	14	30,775	55	47	57,512	38	32
1985	27,578	16	12	30,008	52	44	57,883	35	29
1986	28,434	16	13	31,543	53	45	60,335	36	30
1987	29,227	15	12	31,854	51	43	61,442	34	28
1988	30,196	14	11	31,715	50	43	62,253	33	28
1989	29,953	13	11	30,170	49	42	60,435	31	27
1990	28,797	14	11	29,778	51	44	58,893	33	28
1991	26,829	13	10	27,249	49	43	54,391	31	27
1992	26,236	12	10	25,380	47	40	51,901	30	25
1993	27,770	11	9	25,355	46	39	53,401	28	24
1994	29,134	11	9	25,112	44	38	54,549	27	23
1995	30,066	11	9	25,755	43	37	56,164	26	22
1996	30,802	11	8	25,864	43	37	57,001	26	22
1997	30,979	10	8	25,368	41	35	56,688	24	20
1998	31,389	10	8	24,879	42	36	56,604	24	20
1999	31,212	10	8	24,968	41	35	56,502	24	20
2000	31,236	11	8	25,710	43	37	57,280	26	21
2001	31,620	11	8	25,661	43	37	57,586	25	21
2002	31,135	11	8	26,653	42	36	58,113	25	21
2003	31,863	10	8	26,258	41	36	58,517	24	21
2004	31,686	11	8	26,360	41	35	58,395	24	21
2005	31,820	11	9	27,085	41	36	59,220	25	21
2006	30,566	12	9	26,949	42	36	57,846	26	22
2007	29,307	11	9	26,367	42	36	56,019	26	22
2008	26,377	11	9	23,760	42	36	50,416	26	22
2009	23,673	11	9	21,379	43	37	45,337	26	22
2010	23,840	11	9	20,541	42	36	44,599	26	22
2011	23,460	11	8	20,178	41	36	43,840	25	21
2012	24,068	12	9	21,346	40	34	45,664	25	21
2013	23,894	12	9	20,682	41	35	44,803	25	21
2014	23,514	12	9	20,925	40	34	44,671	25	21
2015	25,917	12	9	22,991	37	31	49,163	24	20
2016	27,305	11	9	24,825	37	32	52,399	24	20
2017	27,697	11	9	24,775	36	31	52,752	23	20
2018	27,035	12	9	24,629	36	31	51,905	23	20
2019	26,975	11	9	24,061	35	29	51,302	22	19
2020	27,044	13	10	26,790	36	31	54,165	24	21
2021	30,617	13	10	30,437	37	32	61,379	25	21
2022	29,780	13	11	29,928	38	32	60,048	26	22

Day – 6 a.m. to 5:59 p.m.

Night – 6 p.m. to 5:59 a.m.

*Includes drivers with time of day unknown.

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Table 16. Drivers in Fatal Crashes, by Their BACs and Sex, 1982-2022

Year	Male			Female		
	Total	Percent		Total	Percent	
		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+
1982	44,370	44	38	10,675	27	22
1983	42,812	43	37	10,958	25	22
1984	44,723	41	35	11,907	25	20
1985	44,846	38	32	12,142	22	18
1986	46,653	40	33	12,744	22	17
1987	46,884	37	32	13,614	21	17
1988	47,402	37	31	13,951	20	16
1989	45,448	35	30	14,054	19	16
1990	44,281	37	32	13,726	20	16
1991	40,731	35	30	12,825	19	16
1992	38,598	33	28	12,596	18	15
1993	39,556	32	27	13,082	17	14
1994	40,233	30	26	13,567	17	14
1995	41,235	30	25	14,184	16	13
1996	41,376	29	25	14,850	16	13
1997	40,954	28	24	14,954	15	12
1998	40,816	28	23	15,089	15	12
1999	41,012	28	23	14,835	14	12
2000	41,795	29	24	14,790	16	13
2001	41,901	29	24	14,919	15	13
2002	42,377	29	25	14,999	15	12
2003	42,586	28	24	15,211	14	12
2004	42,250	28	24	15,384	15	12
2005	43,282	28	24	15,059	16	13
2006	42,223	29	24	14,753	18	15
2007	41,053	29	24	14,184	16	13
2008	37,061	29	25	12,627	16	13
2009	32,882	30	25	11,864	16	13
2010	32,079	28	24	11,859	17	15
2011	31,918	28	24	11,265	16	14
2012	33,351	28	24	11,604	16	14
2013	32,608	28	23	11,429	18	14
2014	32,630	28	23	11,293	18	15
2015	35,850	26	22	12,382	17	14
2016	37,941	26	21	13,376	17	14
2017	38,028	25	21	13,673	17	14
2018	37,406	25	21	13,379	18	15
2019	37,196	24	20	13,000	17	14
2020	39,594	26	21	13,111	19	16
2021	44,359	26	22	15,260	20	17
2022	43,582	27	23	14,719	21	17

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

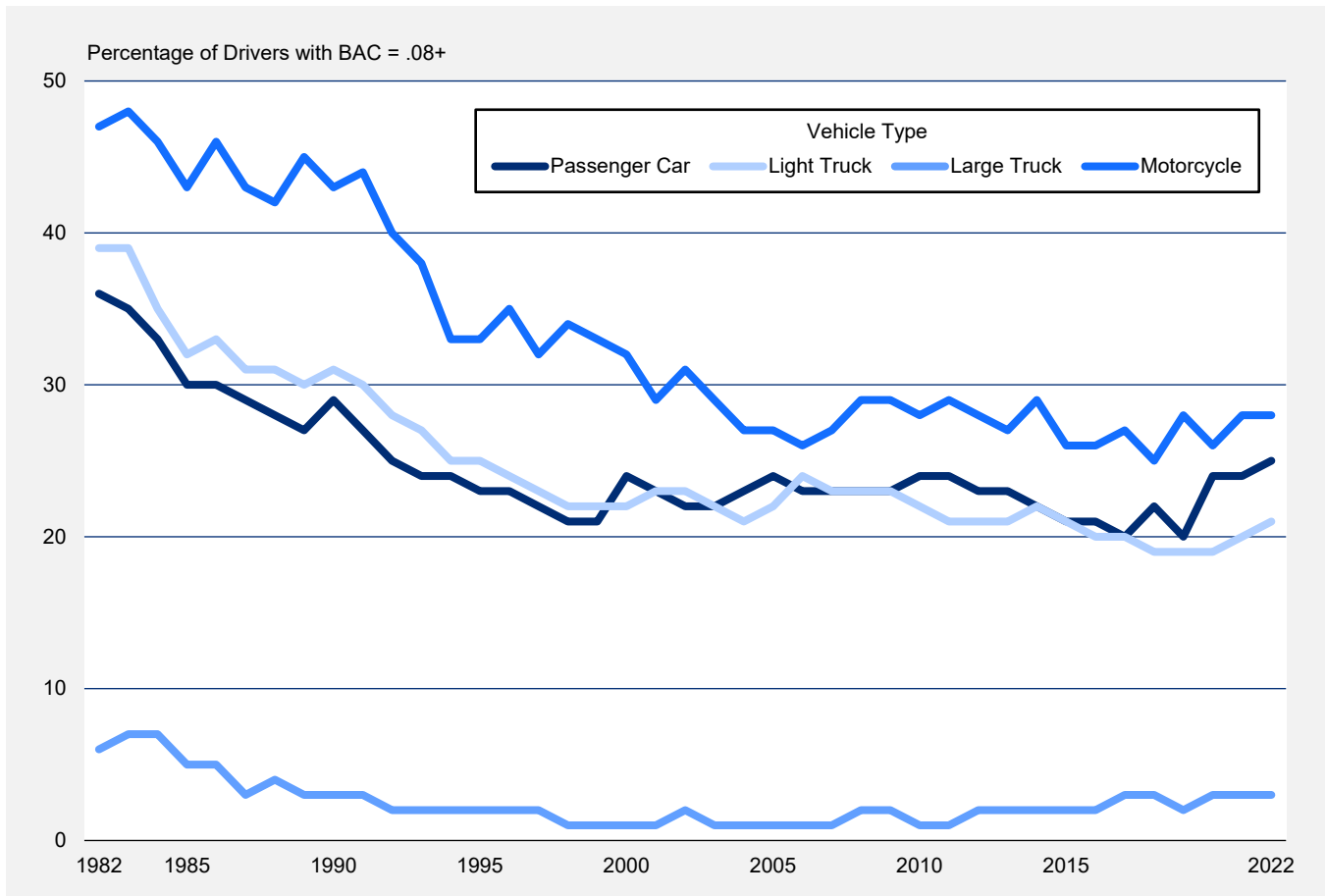
Table 17. Drivers in Fatal Crashes, by Their BACs and Vehicle Type, 1982-2022

Year	Passenger Cars			Light Trucks			Large Trucks			Motorcycles		
	Total	Percent		Total	Percent		Total	Percent		Total	Percent	
		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+
1982	34,121	42	36	11,199	44	39	4,582	10	6	4,490	55	47
1983	33,069	40	35	11,017	43	39	4,790	10	7	4,288	57	48
1984	34,395	39	33	11,866	41	35	5,056	9	7	4,650	55	46
1985	34,071	36	30	12,372	37	32	5,091	7	5	4,598	53	43
1986	35,959	36	30	13,208	38	33	5,015	7	5	4,558	56	46
1987	36,371	35	29	14,407	37	31	5,046	5	3	4,061	51	43
1988	36,769	34	28	15,167	37	31	5,141	6	4	3,704	51	42
1989	35,204	32	27	15,579	35	30	4,903	4	3	3,182	53	45
1990	33,893	34	29	15,501	36	31	4,709	5	3	3,269	52	43
1991	31,102	31	27	14,702	35	30	4,291	4	3	2,816	52	44
1992	29,670	30	25	14,540	33	28	3,980	3	2	2,435	49	40
1993	30,060	28	24	15,207	31	27	4,271	4	2	2,471	45	38
1994	30,103	28	24	16,235	29	25	4,592	3	2	2,330	41	33
1995	30,773	27	23	17,483	29	25	4,410	4	2	2,262	42	33
1996	30,595	27	23	18,118	28	24	4,703	3	2	2,175	43	35
1997	29,896	26	22	18,502	26	23	4,859	3	2	2,159	41	32
1998	28,907	26	21	19,247	26	22	4,905	2	1	2,333	41	34
1999	27,878	25	21	19,865	26	22	4,868	3	1	2,528	40	33
2000	27,661	28	24	20,393	26	22	4,948	3	1	2,971	40	32
2001	27,444	27	23	20,704	27	23	4,779	2	1	3,261	37	29
2002	27,236	27	22	21,562	27	23	4,550	3	2	3,363	39	31
2003	26,422	26	22	22,172	25	22	4,658	2	1	3,800	36	29
2004	25,568	27	23	22,367	25	21	4,837	2	1	4,116	34	27
2005	25,046	28	24	22,879	25	22	4,900	3	1	4,679	34	27
2006	24,162	27	23	22,307	28	24	4,729	2	1	4,961	34	26
2007	22,765	27	23	21,719	27	23	4,601	2	1	5,306	35	27
2008	20,379	27	23	19,095	26	23	4,040	3	2	5,405	36	29
2009	18,344	27	23	17,878	27	23	3,182	3	2	4,601	36	29
2010	17,710	27	24	17,385	25	22	3,456	2	1	4,647	36	28
2011	17,401	27	24	16,706	25	21	3,594	3	1	4,761	37	29
2012	18,171	26	23	17,230	25	21	3,774	3	2	5,108	35	28
2013	17,850	27	23	16,810	25	21	3,872	4	2	4,795	35	27
2014	17,802	26	22	17,040	25	22	3,702	3	2	4,703	37	29
2015	19,689	25	21	18,762	24	21	4,020	2	2	5,126	34	26
2016	20,965	25	21	19,802	23	20	4,503	4	2	5,460	33	26
2017	21,133	24	20	19,878	23	20	4,746	4	3	5,372	34	27
2018	20,433	25	22	19,789	22	19	4,832	4	3	5,164	33	25
2019	19,689	24	20	19,817	22	19	4,977	3	2	5,143	36	28
2020	19,063	28	24	22,266	22	19	4,755	4	3	5,754	33	26
2021	21,172	28	24	25,689	23	20	5,668	5	3	6,297	35	28
2022	19,889	29	25	25,613	25	21	5,760	5	3	6,349	36	28

Notes: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report. The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

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Figure 9. Proportion of Drivers in Fatal Crashes With BACs = .08+ g/dL, by Vehicle Type, 1982-2022



Notes: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

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Table 18. Drivers in Fatal Crashes, by Their BACs and Age Group, 1982-2022

Year	Age Group								
	<15 Years			15-20 Years			21-24 Years		
	Total	Percent		Total	Percent		Total	Percent	
		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+
1982	190	14	11	10,080	44	36	9,018	53	46
1983	203	16	13	9,547	42	35	8,432	53	46
1984	204	16	11	10,046	40	31	8,963	52	44
1985	206	14	10	9,659	34	26	9,046	47	40
1986	197	16	11	10,470	37	28	9,129	49	41
1987	186	15	11	10,193	33	25	8,808	47	39
1988	204	11	8	10,415	32	24	8,555	47	39
1989	173	12	10	9,671	30	23	7,723	45	38
1990	178	15	13	9,052	32	25	7,195	46	39
1991	146	16	10	8,220	30	23	6,748	45	38
1992	139	19	12	7,403	27	21	6,323	42	35
1993	155	15	11	7,484	24	18	6,406	40	34
1994	152	13	9	7,968	24	18	6,291	39	33
1995	156	12	8	7,979	21	15	6,263	38	32
1996	163	10	7	8,074	22	17	6,205	38	31
1997	128	13	10	7,936	22	17	5,705	36	30
1998	141	13	9	7,987	22	17	5,613	37	32
1999	131	10	7	8,187	22	17	5,639	38	31
2000	120	16	12	8,224	23	18	5,950	38	32
2001	119	13	10	8,166	23	18	6,037	39	33
2002	138	13	9	8,325	23	18	6,316	39	33
2003	152	12	9	7,937	23	18	6,276	38	32
2004	158	12	8	7,942	23	18	6,413	39	33
2005	138	16	9	7,500	22	17	6,585	39	33
2006	99	13	10	7,493	24	19	6,480	39	33
2007	107	13	8	7,026	23	18	6,287	41	34
2008	79	8	5	5,886	22	17	5,342	40	34
2009	84	12	4	5,170	24	18	4,612	41	34
2010	61	5	4	4,603	22	17	4,608	40	34
2011	60	8	6	4,362	24	20	4,488	37	32
2012	49	15	10	4,313	22	17	4,765	38	32
2013	56	8	5	3,991	21	17	4,630	38	32
2014	55	7	6	3,897	22	17	4,664	36	30
2015	61	6	5	4,352	20	16	5,014	33	28
2016	76	8	7	4,555	19	15	5,284	32	27
2017	62	6	6	4,410	18	15	5,070	31	27
2018	43	7	6	4,176	18	15	4,832	33	28
2019	61	15	10	3,999	18	15	4,636	31	27
2020	88	13	11	4,588	22	17	4,911	31	26
2021	96	11	9	5,137	21	17	5,568	32	27
2022	87	14	11	4,856	24	19	5,279	34	29

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

**Table 18. Drivers in Fatal Crashes, by Their BACs and Age Group, 1982-2022
(Continued)**

Year	Age Group								
	25-34 Years			35-44 Years			45-54 Years		
	Total	Percent		Total	Percent		Total	Percent	
		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+
1982	14,787	46	41	7,984	38	33	4,980	32	28
1983	14,470	46	41	8,068	37	33	4,992	29	25
1984	15,233	44	39	8,563	35	31	5,084	28	24
1985	15,257	42	37	8,892	32	29	5,150	26	22
1986	16,179	43	38	9,240	33	29	5,077	26	22
1987	16,562	43	37	9,778	32	28	5,470	23	20
1988	16,398	42	36	10,077	32	28	5,761	23	20
1989	15,928	40	35	10,106	32	28	6,038	24	21
1990	15,764	43	37	10,177	33	30	5,867	24	20
1991	14,151	41	36	9,482	32	28	5,458	23	20
1992	13,049	40	35	9,284	31	27	5,672	22	19
1993	13,038	37	32	9,738	30	27	5,970	21	18
1994	12,891	36	31	9,951	29	26	6,493	21	18
1995	13,048	35	30	10,677	30	26	6,815	21	18
1996	12,889	34	30	10,955	29	25	7,127	21	18
1997	12,453	32	27	10,904	29	26	7,522	20	17
1998	11,925	32	28	11,241	28	24	7,690	21	18
1999	11,763	32	28	11,059	28	25	7,708	20	17
2000	11,739	33	28	11,132	30	26	8,234	22	18
2001	11,584	32	28	11,261	29	25	8,346	22	19
2002	11,483	33	29	10,973	29	26	8,558	22	19
2003	11,288	31	27	11,053	28	24	9,024	22	19
2004	11,242	32	27	10,743	27	23	9,148	22	19
2005	11,467	33	29	10,793	28	24	9,434	23	19
2006	11,279	34	29	10,379	29	25	9,234	23	19
2007	10,773	34	29	9,936	28	25	9,028	24	20
2008	9,800	36	31	8,806	29	25	8,355	24	20
2009	8,630	36	31	7,779	30	26	7,686	26	22
2010	8,567	35	30	7,333	29	25	7,517	25	21
2011	8,549	34	30	7,084	28	24	7,513	24	21
2012	9,019	34	29	7,365	28	24	7,660	24	21
2013	8,808	35	30	7,220	28	24	7,376	24	20
2014	8,992	33	29	6,910	28	24	7,370	24	20
2015	9,994	31	27	7,768	27	23	7,915	23	19
2016	10,913	32	27	8,179	26	22	8,023	23	19
2017	11,006	30	26	8,284	26	23	8,186	23	19
2018	10,853	31	26	8,188	25	21	7,939	22	19
2019	10,592	30	25	8,382	25	22	7,581	21	18
2020	12,011	31	26	8,956	26	22	7,778	23	19
2021	13,309	31	27	10,370	28	24	8,828	24	20
2022	12,611	32	28	10,344	28	24	8,619	24	20

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

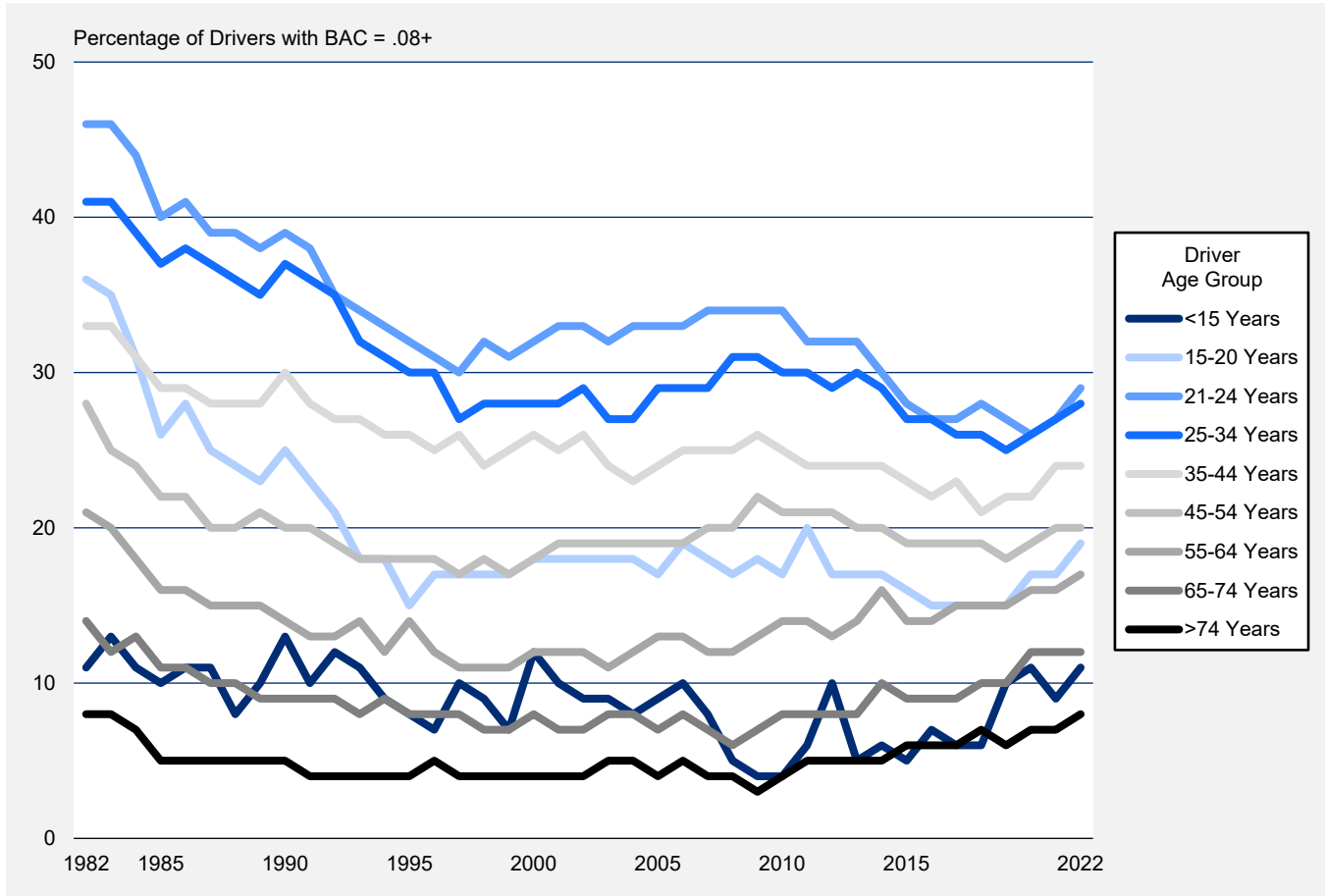
**Table 18. Drivers in Fatal Crashes, by Their BACs and Age Group, 1982-2022
(Continued)**

Year	Age Group								
	55-64 Years			65-74 Years			> 74 Years		
	Total	Percent		Total	Percent		Total	Percent	
		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+		BAC = .01+	BAC = .08+
1982	3,941	25	21	2,343	17	14	1,551	11	8
1983	3,862	23	20	2,434	14	12	1,592	10	8
1984	4,059	22	18	2,620	16	13	1,696	10	7
1985	4,112	19	16	2,650	14	11	1,829	8	5
1986	4,019	20	16	2,844	14	11	2,037	8	5
1987	4,223	18	15	2,987	13	10	2,091	7	5
1988	4,320	18	15	3,079	14	10	2,297	8	5
1989	4,202	17	15	3,107	12	9	2,324	7	5
1990	4,068	17	14	3,161	12	9	2,340	8	5
1991	3,695	16	13	3,017	12	9	2,454	7	4
1992	3,688	16	13	3,024	12	9	2,450	6	4
1993	3,824	17	14	3,031	10	8	2,817	7	4
1994	3,828	15	12	3,194	11	9	2,867	6	4
1995	4,079	16	14	3,251	10	8	2,989	6	4
1996	4,237	15	12	3,319	11	8	3,068	6	5
1997	4,394	14	11	3,401	10	8	3,314	6	4
1998	4,478	14	11	3,399	9	7	3,291	6	4
1999	4,608	14	11	3,251	10	7	3,346	6	4
2000	4,766	15	12	3,134	11	8	3,147	6	4
2001	4,714	14	12	3,156	9	7	3,290	6	4
2002	5,093	14	12	3,100	9	7	3,223	6	4
2003	5,455	14	11	3,116	10	8	3,329	6	5
2004	5,612	15	12	3,070	10	8	3,169	7	5
2005	6,075	16	13	3,217	10	7	3,016	6	4
2006	5,894	17	13	3,029	11	8	2,967	7	5
2007	6,037	15	12	3,038	10	7	2,879	6	4
2008	5,717	16	12	2,927	9	6	2,672	6	4
2009	5,276	15	13	2,876	9	7	2,560	5	3
2010	5,577	17	14	2,902	10	8	2,688	6	4
2011	5,572	17	14	2,960	10	8	2,528	7	5
2012	5,930	16	13	3,239	11	8	2,554	7	5
2013	5,947	17	14	3,373	11	8	2,586	7	5
2014	6,004	19	16	3,316	12	10	2,650	7	5
2015	6,525	18	14	3,794	12	9	2,762	8	6
2016	7,037	18	14	4,155	12	9	3,014	7	6
2017	7,316	19	15	4,148	12	9	3,151	7	6
2018	7,319	19	15	4,250	13	10	3,120	9	7
2019	7,216	19	15	4,425	14	10	3,252	8	6
2020	7,316	19	16	4,129	15	12	2,824	9	7
2021	8,146	19	16	4,785	15	12	3,280	9	7
2022	7,899	21	17	5,053	15	12	3,445	10	8

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Figure 10. Proportion of Drivers in Fatal Crashes With BACs = .08+ g/dL, by Age Group, 1982-2022



1. Trends

Table 19. Drivers in Fatal Crashes, by Their BACs and Survival Status, 1982-2022

Year	Driver Survival Status								All Drivers in Fatal Crashes			
	Surviving Drivers				Killed Drivers							
	BAC = .00	BAC = .01-.07	BAC = .08+	Total	BAC = .00	BAC = .01-.07	BAC = .08+	Total	BAC = .00	BAC = .01-.07	BAC = .08+	Total
1982	22,187	1,615	7,537	31,339	11,015	1,537	12,139	24,690	33,202	3,152	19,676	56,029
1983	21,885	1,410	7,223	30,518	11,189	1,406	11,543	24,138	33,075	2,816	18,765	54,656
1984	23,367	1,620	6,936	31,923	12,477	1,614	11,499	25,589	35,843	3,234	18,435	57,512
1985	24,921	1,451	6,174	32,546	12,960	1,692	10,685	25,337	37,880	3,143	16,860	57,883
1986	25,265	1,758	6,681	33,705	13,343	1,878	11,409	26,630	38,608	3,636	18,091	60,335
1987	26,570	1,612	6,426	34,609	14,054	1,722	11,058	26,833	40,624	3,334	17,484	61,442
1988	27,270	1,565	6,165	35,000	14,418	1,732	11,103	27,253	41,688	3,297	17,268	62,253
1989	27,193	1,301	5,552	34,046	14,246	1,507	10,637	26,389	41,438	2,808	16,189	60,435
1990	25,582	1,469	6,092	33,143	13,858	1,497	10,395	25,750	39,440	2,966	16,487	58,893
1991	24,157	1,245	5,059	30,461	13,138	1,307	9,485	23,930	37,295	2,552	14,544	54,391
1992	23,678	1,172	4,467	29,317	12,906	1,226	8,452	22,584	36,584	2,398	12,919	51,901
1993	24,858	1,147	4,254	30,259	13,652	1,168	8,322	23,142	38,510	2,315	12,576	53,401
1994	25,331	1,078	4,449	30,858	14,612	1,166	7,913	23,691	39,943	2,244	12,362	54,549
1995	26,633	1,082	4,059	31,774	14,841	1,242	8,307	24,390	41,474	2,324	12,366	56,164
1996	27,158	1,136	4,173	32,467	15,134	1,225	8,175	24,534	42,292	2,361	12,348	57,001
1997	27,258	1,027	3,736	32,021	15,670	1,154	7,843	24,667	42,929	2,180	11,579	56,688
1998	27,026	1,108	3,727	31,861	15,738	1,171	7,834	24,743	42,764	2,279	11,561	56,604
1999	26,733	983	3,529	31,245	16,126	1,213	7,918	25,257	42,858	2,196	11,447	56,502
2000	26,527	1,092	4,094	31,713	16,116	1,285	8,167	25,567	42,643	2,376	12,261	57,280
2001	26,601	1,135	3,981	31,717	16,332	1,285	8,253	25,869	42,932	2,420	12,233	57,586
2002	26,524	1,040	3,889	31,454	16,863	1,281	8,515	26,659	43,388	2,321	12,405	58,113
2003	27,081	976	3,681	31,738	17,107	1,319	8,354	26,779	44,187	2,295	12,035	58,517
2004	26,661	960	3,903	31,524	17,450	1,266	8,155	26,871	44,111	2,226	12,057	58,395
2005	26,650	998	4,082	31,729	17,628	1,374	8,489	27,491	44,278	2,371	12,571	59,220
2006	25,509	1,016	3,973	30,498	17,315	1,455	8,578	27,348	42,823	2,472	12,551	57,846
2007	24,831	1,136	3,483	29,449	16,591	1,361	8,617	26,570	41,422	2,497	12,100	56,019
2008	22,312	913	2,937	26,162	15,067	1,226	7,961	24,254	37,379	2,139	10,898	50,416
2009	19,803	883	2,816	23,502	13,520	1,102	7,213	21,835	33,324	1,985	10,029	45,337
2010	19,747	761	3,019	23,527	13,442	1,051	6,579	21,072	33,190	1,812	9,598	44,599
2011	19,615	647	2,762	23,025	13,290	1,001	6,524	20,815	32,906	1,648	9,287	43,840
2012	20,519	709	2,946	24,174	13,674	1,082	6,735	21,490	34,193	1,791	9,680	45,664
2013	20,106	825	2,929	23,860	13,372	1,025	6,546	20,943	33,478	1,850	9,475	44,803
2014	20,010	863	3,010	23,883	13,428	974	6,387	20,788	33,438	1,837	9,396	44,671
2015	22,627	877	3,310	26,813	14,903	1,087	6,360	22,350	37,529	1,964	9,670	49,163
2016	24,062	943	3,680	28,684	15,943	1,098	6,674	23,715	40,005	2,041	10,353	52,399
2017	24,521	809	3,665	28,995	15,975	1,128	6,654	23,757	40,497	1,937	10,318	52,752
2018	24,143	808	3,909	28,860	15,592	1,103	6,349	23,045	39,735	1,911	10,259	51,905
2019	24,530	791	3,233	28,555	15,232	1,120	6,396	22,747	39,762	1,911	9,629	51,302
2020	24,480	923	3,902	29,305	16,439	1,200	7,221	24,860	40,920	2,122	11,123	54,165
2021	27,886	1,116	4,822	33,824	18,043	1,323	8,189	27,555	45,930	2,439	13,011	61,379
2022	27,126	1,137	4,943	33,206	17,498	1,332	8,012	26,842	44,624	2,469	12,955	60,048

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Table 20. Pedestrians Killed, 15 and Older, by Their BACs, 1982-2022

Year	BAC = .00		BAC = .01-.07		BAC = .08+		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1982	3,077	51	316	5	2,686	44	6,079	100
1983	2,852	51	295	5	2,498	44	5,645	100
1984	3,095	53	282	5	2,454	42	5,830	100
1985	3,017	53	339	6	2,283	40	5,639	100
1986	3,048	54	330	6	2,258	40	5,636	100
1987	3,145	56	342	6	2,179	38	5,667	100
1988	3,312	57	284	5	2,171	38	5,767	100
1989	3,115	56	299	5	2,190	39	5,604	100
1990	3,140	57	258	5	2,146	39	5,544	100
1991	2,810	57	235	5	1,903	38	4,948	100
1992	2,686	56	231	5	1,866	39	4,783	100
1993	2,731	57	198	4	1,863	39	4,792	100
1994	2,733	58	228	5	1,722	37	4,683	100
1995	2,820	58	225	5	1,797	37	4,842	100
1996	2,695	57	211	4	1,813	38	4,719	100
1997	2,852	61	177	4	1,644	35	4,673	100
1998	2,705	58	248	5	1,686	36	4,639	100
1999	2,531	58	192	4	1,653	38	4,375	100
2000	2,491	59	212	5	1,538	36	4,241	100
2001	2,626	60	220	5	1,563	35	4,409	100
2002	2,638	60	191	4	1,586	36	4,415	100
2003	2,593	60	192	4	1,566	36	4,351	100
2004	2,530	59	206	5	1,532	36	4,268	100
2005	2,749	61	196	4	1,564	35	4,508	100
2006	2,542	57	221	5	1,659	38	4,422	100
2007	2,554	59	207	5	1,593	37	4,353	100
2008	2,383	58	182	4	1,550	38	4,115	100
2009	2,265	59	174	5	1,404	37	3,843	100
2010	2,421	60	192	5	1,413	35	4,026	100
2011	2,466	59	198	5	1,545	37	4,209	100
2012	2,689	59	223	5	1,629	36	4,541	100
2013	2,727	60	193	4	1,590	35	4,510	100
2014	2,858	61	199	4	1,599	34	4,655	100
2015	3,211	62	236	5	1,766	34	5,213	100
2016	3,499	61	282	5	1,982	34	5,763	100
2017	3,639	63	267	5	1,883	33	5,789	100
2018	3,816	62	303	5	2,022	33	6,141	100
2019	3,807	63	331	5	1,920	32	6,058	100
2020	4,078	65	299	5	1,931	31	6,309	100
2021	4,659	65	340	5	2,189	30	7,188	100
2022	4,753	66	316	4	2,164	30	7,233	100

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

1. Trends

Table 21. Drivers of Passenger Cars and Light Trucks in Crashes, by Crash Severity and Restraint Use, 1975-2022

Year	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Drivers in Fatal Crashes								
1975	2,580	5.6	29,713	64.3	13,931	30.1	46,224	100.0
1976	2,059	4.5	29,908	64.7	14,239	30.8	46,206	100.0
1977	1,895	3.9	33,013	67.3	14,154	28.8	49,062	100.0
1978	1,878	3.6	37,610	72.3	12,510	24.1	51,998	100.0
1979	1,680	3.2	38,326	73.5	12,123	23.3	52,129	100.0
1980	1,481	2.9	37,890	73.9	11,935	23.3	51,306	100.0
1981	1,488	2.9	38,353	75.6	10,905	21.5	50,746	100.0
1982	1,513	3.3	33,795	74.6	10,012	22.1	45,320	100.0
1983	1,834	4.2	32,333	73.3	9,919	22.5	44,086	100.0
1984	2,755	6.0	32,980	71.3	10,526	22.8	46,261	100.0
1985	6,169	13.3	29,708	64.0	10,566	22.8	46,443	100.0
1986	10,891	22.2	28,778	58.5	9,498	19.3	49,167	100.0
1987	14,472	28.5	28,156	55.4	8,150	16.1	50,778	100.0
1988	16,946	32.6	28,148	54.2	6,842	13.2	51,936	100.0
1989	17,542	34.5	26,767	52.7	6,474	12.7	50,783	100.0
1990	18,340	37.1	24,706	50.0	6,348	12.9	49,394	100.0
1991	18,456	40.3	21,844	47.7	5,504	12.0	45,804	100.0
1992	19,104	43.2	19,838	44.9	5,268	11.9	44,210	100.0
1993	20,930	46.2	19,141	42.3	5,196	11.5	45,267	100.0
1994	22,759	49.1	18,950	40.9	4,629	10.0	46,338	100.0
1995	24,160	50.1	19,433	40.3	4,663	9.7	48,256	100.0
1996	25,206	51.7	18,760	38.5	4,747	9.7	48,713	100.0
1997	25,313	52.3	18,286	37.8	4,799	9.9	48,398	100.0
1998	25,854	53.7	17,601	36.6	4,699	9.8	48,154	100.0
1999	25,498	53.4	17,693	37.1	4,552	9.5	47,743	100.0
2000	26,690	55.5	16,995	35.4	4,369	9.1	48,054	100.0
2001	27,222	56.5	16,528	34.3	4,398	9.1	48,148	100.0
2002	27,812	57.0	16,711	34.2	4,275	8.8	48,798	100.0
2003	28,822	59.3	15,491	31.9	4,281	8.8	48,594	100.0
2004	29,072	60.6	15,120	31.5	3,743	7.8	47,935	100.0
2005	29,263	61.1	14,985	31.3	3,677	7.7	47,925	100.0
2006	28,283	60.9	14,436	31.1	3,750	8.1	46,469	100.0
2007	27,622	62.1	13,215	29.7	3,647	8.2	44,484	100.0
2008	24,649	62.4	11,770	29.8	3,055	7.7	39,474	100.0
2009	22,963	63.4	10,486	28.9	2,773	7.7	36,222	100.0
2010	22,712	64.7	9,598	27.3	2,785	7.9	35,095	100.0
2011	22,183	65.0	9,321	27.3	2,603	7.6	34,107	100.0
2012	23,191	65.5	9,431	26.6	2,779	7.9	35,401	100.0
2013	23,089	66.6	8,729	25.2	2,842	8.2	34,660	100.0
2014	23,347	67.0	8,636	24.8	2,859	8.2	34,842	100.0
2015	26,084	67.8	9,162	23.8	3,205	8.3	38,451	100.0
2016	27,672	67.9	9,670	23.7	3,425	8.4	40,767	100.0
2017	28,040	68.4	9,567	23.3	3,404	8.3	41,011	100.0
2018	27,533	68.5	9,297	23.1	3,392	8.4	40,222	100.0
2019	26,954	68.2	9,112	23.1	3,440	8.7	39,506	100.0
2020	26,601	64.4	10,704	25.9	4,024	9.7	41,329	100.0
2021	30,429	64.9	11,878	25.3	4,554	9.7	46,861	100.0
2022	29,608	65.1	11,188	24.6	4,706	10.3	45,502	100.0

Note: Restraint use is determined by police and may be overreported for survivors.

1. Trends

Table 21. Drivers of Passenger Cars and Light Trucks in Crashes, by Crash Severity and Restraint Use, 1975-2022 (Continued)

Year	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Drivers in Injury Crashes								
1988	2,311,770	62.1	803,120	21.6	609,451	16.4	3,724,341	100.0
1989	2,266,079	62.8	749,657	20.8	591,739	16.4	3,607,475	100.0
1990	2,288,848	64.4	704,281	19.8	563,279	15.8	3,556,408	100.0
1991	2,302,823	67.8	586,326	17.3	505,231	14.9	3,394,380	100.0
1992	2,420,476	71.5	475,529	14.0	490,015	14.5	3,386,020	100.0
1993	2,556,857	73.8	435,400	12.6	474,536	13.7	3,466,793	100.0
1994	2,855,709	77.4	417,746	11.3	416,072	11.3	3,689,526	100.0
1995	3,117,826	79.3	387,775	9.9	425,369	10.8	3,930,969	100.0
1996	3,135,401	79.4	366,251	9.3	445,267	11.3	3,946,919	100.0
1997	3,002,767	79.1	339,223	8.9	452,258	11.9	3,794,247	100.0
1998	2,862,534	79.5	308,865	8.6	428,113	11.9	3,599,512	100.0
1999	2,896,157	80.5	293,005	8.1	408,806	11.4	3,597,968	100.0
2000	2,958,319	82.2	252,405	7.0	389,594	10.8	3,600,319	100.0
2001	2,881,534	82.5	234,222	6.7	375,605	10.8	3,491,361	100.0
2002	2,787,264	83.5	207,536	6.2	343,464	10.3	3,338,265	100.0
2003	2,843,425	84.7	180,490	5.4	332,221	9.9	3,356,135	100.0
2004	2,785,384	86.2	138,048	4.3	306,783	9.5	3,230,216	100.0
2005	2,666,275	86.1	140,967	4.6	290,194	9.4	3,097,436	100.0
2006	2,577,219	86.2	123,632	4.1	289,629	9.7	2,990,480	100.0
2007	2,475,044	86.4	115,804	4.0	274,237	9.6	2,865,085	100.0
2008	2,368,847	87.2	105,125	3.9	241,303	8.9	2,715,275	100.0
2009	2,257,066	87.8	86,961	3.4	226,324	8.8	2,570,351	100.0
2010	2,294,206	87.3	84,440	3.2	250,394	9.5	2,629,040	100.0
2011	2,274,697	87.7	79,664	3.1	238,313	9.2	2,592,674	100.0
2012	2,427,854	87.8	82,495	3.0	255,077	9.2	2,765,427	100.0
2013	2,424,714	88.6	71,599	2.6	239,445	8.8	2,735,758	100.0
2014	2,478,273	87.9	74,823	2.7	266,404	9.4	2,819,499	100.0
2015	2,633,863	88.4	72,203	2.4	272,809	9.2	2,978,875	100.0
2016	3,183,995	87.2	88,803	2.4	378,677	10.4	3,651,474	100.0
2017	2,894,589	88.1	84,620	2.6	306,018	9.3	3,285,227	100.0
2018	2,847,013	87.1	78,550	2.4	344,077	10.5	3,269,640	100.0
2019	2,868,031	86.1	81,986	2.5	379,567	11.4	3,329,583	100.0
2020	2,115,302	86.3	82,654	3.4	252,237	10.3	2,450,192	100.0
2021	2,366,100	87.2	97,919	3.6	247,852	9.1	2,711,871	100.0
2022	2,168,815	87.0	83,898	3.4	239,717	9.6	2,492,430	100.0

Notes: Restraint use is determined by police and may be overreported for survivors. Estimates for drivers involved in injury and property-damage-only crashes from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Table 21. Drivers of Passenger Cars and Light Trucks in Crashes, by Crash Severity and Restraint Use, 1975-2022 (Continued)

Year	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Drivers in Property-Damage-Only Crashes								
1988	4,516,623	60.4	1,200,873	16.1	1,763,026	23.6	7,480,522	100.0
1989	4,530,165	62.6	1,015,243	14.0	1,691,491	23.4	7,236,899	100.0
1990	4,498,734	63.4	978,858	13.8	1,616,178	22.8	7,093,771	100.0
1991	4,513,490	67.2	714,558	10.6	1,490,369	22.2	6,718,417	100.0
1992	4,671,068	71.6	507,705	7.8	1,344,388	20.6	6,523,161	100.0
1993	4,986,437	75.0	450,824	6.8	1,208,528	18.2	6,645,789	100.0
1994	5,533,563	77.7	392,257	5.5	1,198,393	16.8	7,124,213	100.0
1995	5,914,114	79.3	355,548	4.8	1,184,200	15.9	7,453,861	100.0
1996	5,960,441	79.2	328,381	4.4	1,240,504	16.5	7,529,326	100.0
1997	5,841,056	78.9	310,533	4.2	1,254,544	16.9	7,406,133	100.0
1998	5,720,270	79.6	267,913	3.7	1,198,676	16.7	7,186,860	100.0
1999	5,636,080	81.3	237,572	3.4	1,058,407	15.3	6,932,059	100.0
2000	5,845,874	82.7	173,076	2.4	1,050,074	14.9	7,069,025	100.0
2001	5,896,967	83.6	161,026	2.3	999,507	14.2	7,057,500	100.0
2002	6,092,984	84.9	156,903	2.2	922,987	12.9	7,172,875	100.0
2003	6,042,495	84.7	134,994	1.9	959,518	13.4	7,137,006	100.0
2004	6,106,246	86.2	106,409	1.5	870,150	12.3	7,082,804	100.0
2005	6,086,932	86.1	104,241	1.5	879,641	12.4	7,070,813	100.0
2006	5,939,886	85.3	94,957	1.4	925,363	13.3	6,960,205	100.0
2007	6,010,985	85.8	91,363	1.3	900,251	12.9	7,002,599	100.0
2008	5,861,616	86.7	94,770	1.4	801,745	11.9	6,758,132	100.0
2009	5,708,185	87.4	70,967	1.1	751,413	11.5	6,530,565	100.0
2010	5,720,070	88.8	75,791	1.2	644,358	10.0	6,440,219	100.0
2011	5,598,833	88.8	54,880	0.9	652,045	10.3	6,305,758	100.0
2012	5,831,591	88.8	63,531	1.0	673,285	10.3	6,568,407	100.0
2013	6,018,170	89.2	56,624	0.8	674,641	10.0	6,749,435	100.0
2014	6,518,845	89.4	84,679	1.2	685,758	9.4	7,289,282	100.0
2015	6,842,929	89.8	66,949	0.9	709,909	9.3	7,619,787	100.0
2016	6,883,658	89.4	71,541	0.9	747,589	9.7	7,702,787	100.0
2017	6,720,770	89.3	65,549	0.9	739,998	9.8	7,526,317	100.0
2018	7,138,533	89.3	81,961	1.0	777,274	9.7	7,997,768	100.0
2019	7,180,783	89.6	86,719	1.1	749,253	9.3	8,016,755	100.0
2020	4,923,813	89.6	70,847	1.3	498,651	9.1	5,493,311	100.0
2021	5,821,109	89.3	90,989	1.4	603,917	9.3	6,516,016	100.0
2022	5,400,906	89.9	78,555	1.3	528,900	8.8	6,008,362	100.0

Notes: Restraint use is determined by police and may be overreported for survivors. Estimates for drivers involved in injury and property-damage-only crashes from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Table 22. Occupants of Passenger Cars and Light Trucks Killed and Injured, by Restraint Use, 1975-2022

Year	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Occupants Killed								
1975	984	3.2	21,078	68.5	8,723	28.3	30,785	100.0
1976	793	2.5	21,982	69.6	8,829	27.9	31,604	100.0
1977	777	2.4	23,594	72.0	8,387	25.6	32,758	100.0
1978	781	2.2	26,674	76.4	7,443	21.3	34,898	100.0
1979	683	2.0	27,130	77.5	7,173	20.5	34,986	100.0
1980	670	1.9	27,484	78.7	6,781	19.4	34,935	100.0
1981	649	1.9	26,974	80.0	6,103	18.1	33,726	100.0
1982	677	2.3	23,560	79.4	5,452	18.4	29,689	100.0
1983	825	2.8	23,082	79.1	5,274	18.1	29,181	100.0
1984	1,207	4.0	23,300	77.4	5,609	18.6	30,116	100.0
1985	2,389	8.0	22,133	74.0	5,379	18.0	29,901	100.0
1986	4,074	12.6	23,420	72.6	4,767	14.8	32,261	100.0
1987	5,249	15.8	23,799	71.7	4,142	12.5	33,190	100.0
1988	6,209	18.2	24,360	71.4	3,545	10.4	34,114	100.0
1989	6,544	19.5	23,615	70.3	3,455	10.3	33,614	100.0
1990	6,775	20.7	22,547	69.0	3,371	10.3	32,693	100.0
1991	7,331	23.8	20,489	66.6	2,956	9.6	30,776	100.0
1992	7,698	26.1	19,054	64.6	2,733	9.3	29,485	100.0
1993	8,677	28.8	18,555	61.7	2,845	9.5	30,077	100.0
1994	9,641	31.2	18,637	60.3	2,623	8.5	30,901	100.0
1995	10,152	31.7	19,130	59.8	2,709	8.5	31,991	100.0
1996	10,713	33.0	18,851	58.1	2,873	8.9	32,437	100.0
1997	10,995	33.9	18,642	57.5	2,811	8.7	32,448	100.0
1998	11,213	35.2	18,022	56.5	2,664	8.4	31,899	100.0
1999	11,174	34.8	18,316	57.0	2,637	8.2	32,127	100.0
2000	11,787	36.6	17,810	55.3	2,628	8.2	32,225	100.0
2001	11,946	37.3	17,517	54.7	2,580	8.1	32,043	100.0
2002	12,532	38.2	17,798	54.2	2,513	7.7	32,843	100.0
2003	12,967	40.2	16,764	51.9	2,540	7.9	32,271	100.0
2004	13,250	41.6	16,432	51.6	2,184	6.9	31,866	100.0
2005	13,063	41.4	16,248	51.5	2,238	7.1	31,549	100.0
2006	12,710	41.4	15,635	51.0	2,341	7.6	30,686	100.0
2007	12,322	42.4	14,446	49.7	2,304	7.9	29,072	100.0
2008	10,691	42.0	12,925	50.8	1,846	7.3	25,462	100.0
2009	10,190	43.5	11,545	49.2	1,712	7.3	23,447	100.0
2010	9,969	44.8	10,590	47.5	1,714	7.7	22,273	100.0
2011	9,471	44.4	10,215	47.9	1,630	7.6	21,316	100.0
2012	9,746	44.7	10,370	47.6	1,663	7.6	21,779	100.0
2013	9,840	46.4	9,622	45.3	1,761	8.3	21,223	100.0
2014	9,961	47.3	9,410	44.7	1,679	8.0	21,050	100.0
2015	10,763	47.5	9,975	44.1	1,903	8.4	22,641	100.0
2016	11,343	47.7	10,463	44.0	1,981	8.3	23,787	100.0
2017	11,488	48.5	10,116	42.8	2,059	8.7	23,663	100.0
2018	11,055	48.4	9,845	43.1	1,945	8.5	22,845	100.0
2019	10,891	48.7	9,523	42.6	1,958	8.8	22,372	100.0
2020	10,532	44.0	10,925	45.7	2,457	10.3	23,914	100.0
2021	11,899	45.0	11,877	44.9	2,689	10.2	26,465	100.0
2022	11,410	44.9	11,302	44.5	2,708	10.7	25,420	100.0

Note: Restraint use is determined by police and may be overreported for survivors.

1. Trends

Table 22. Occupants of Passenger Cars and Light Trucks Killed and Injured, by Restraint Use, 1975-2022 (Continued)

Year	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Occupants Injured								
1988	1,754,456	57.1	920,389	30.0	396,916	12.9	3,071,761	100.0
1989	1,721,884	58.4	869,217	29.5	358,257	12.1	2,949,358	100.0
1990	1,740,366	60.1	830,023	28.7	324,766	11.2	2,895,155	100.0
1991	1,783,557	63.6	733,264	26.1	288,060	10.3	2,804,881	100.0
1992	1,857,064	66.7	628,048	22.5	300,276	10.8	2,785,387	100.0
1993	1,987,166	69.0	596,158	20.7	295,142	10.3	2,878,465	100.0
1994	2,210,330	73.6	568,661	18.9	223,399	7.4	3,002,391	100.0
1995	2,417,449	75.5	555,478	17.3	228,711	7.1	3,201,639	100.0
1996	2,470,618	76.8	524,766	16.3	220,383	6.9	3,215,766	100.0
1997	2,372,667	76.4	481,888	15.5	252,382	8.1	3,106,937	100.0
1998	2,300,308	77.4	440,781	14.8	229,548	7.7	2,970,637	100.0
1999	2,333,453	77.9	424,422	14.2	238,150	7.9	2,996,025	100.0
2000	2,370,172	80.5	371,545	12.6	201,570	6.8	2,943,286	100.0
2001	2,253,406	80.6	328,124	11.7	214,354	7.7	2,795,883	100.0
2002	2,200,921	81.6	288,485	10.7	206,477	7.7	2,695,883	100.0
2003	2,210,030	83.2	253,299	9.5	194,447	7.3	2,657,775	100.0
2004	2,163,030	84.7	210,849	8.3	181,300	7.1	2,555,179	100.0
2005	2,084,187	84.9	208,093	8.5	161,715	6.6	2,453,994	100.0
2006	1,997,500	85.4	184,808	7.9	156,288	6.7	2,338,596	100.0
2007	1,898,860	85.2	170,927	7.7	157,843	7.1	2,227,630	100.0
2008	1,790,626	86.1	143,552	6.9	146,610	7.0	2,080,788	100.0
2009	1,719,551	86.8	126,314	6.4	135,491	6.8	1,981,355	100.0
2010	1,703,048	85.4	117,160	5.9	173,046	8.7	1,993,253	100.0
2011	1,685,439	85.3	115,720	5.9	175,310	8.9	1,976,469	100.0
2012	1,761,503	84.0	113,980	5.4	221,062	10.5	2,096,545	100.0
2013	1,728,547	84.3	100,871	4.9	221,736	10.8	2,051,154	100.0
2014	1,782,049	85.8	105,634	5.1	190,253	9.2	2,077,936	100.0
2015	1,894,334	86.5	101,140	4.6	195,504	8.9	2,190,979	100.0
2016	2,323,523	85.3	119,603	4.4	282,195	10.4	2,725,321	100.0
2017	2,135,549	86.6	115,517	4.7	214,747	8.7	2,465,813	100.0
2018	2,090,243	85.9	98,086	4.0	243,794	10.0	2,432,124	100.0
2019	2,055,765	84.0	104,468	4.3	287,751	11.8	2,447,985	100.0
2020	1,585,644	83.1	103,646	5.4	217,721	11.4	1,907,011	100.0
2021	1,780,669	85.1	121,102	5.8	190,973	9.1	2,092,743	100.0
2022	1,610,752	84.8	100,070	5.3	189,717	10.0	1,900,539	100.0

Notes: Restraint use is determined by police and may be overreported for survivors. Estimates for drivers involved in injury and property-damage-only crashes from 1988-2015 and 2016 and later are not comparable because NASS GES and CRSS have different sample designs. For more details, see page 5 of this report.

1. Trends

Table 23. Passenger Car and Light-Truck Occupants Killed, by Vehicle Type and Rollover Occurrence, 1982-2022

Year	Passenger Cars			Light Trucks									Total*		
				Pickup			Utility			Van					
	Total Killed	Number	Percent	Total Killed	Number	Percent	Total Killed	Number	Percent	Total Killed	Number	Percent	Total Killed	Number	Percent
1982	23,330	5,529	23.7	4,605	1,895	41.2	735	504	68.6	814	285	35.0	29,689	8,298	27.9
1983	22,979	5,434	23.6	4,496	1,903	42.3	769	527	68.5	712	267	37.5	29,181	8,219	28.2
1984	23,620	5,569	23.6	4,686	1,994	42.6	723	496	68.6	764	299	39.1	30,116	8,497	28.2
1985	23,212	5,290	22.8	4,640	1,972	42.5	855	567	66.3	791	314	39.7	29,901	8,284	27.7
1986	24,944	6,015	24.1	5,090	2,301	45.2	927	608	65.6	879	349	39.7	32,261	9,474	29.4
1987	25,132	6,028	24.0	5,502	2,497	45.4	1,050	688	65.5	1,025	384	37.5	33,190	9,801	29.5
1988	25,808	6,248	24.2	5,880	2,713	46.1	1,040	651	62.6	1,001	374	37.4	34,114	10,138	29.7
1989	25,063	5,707	22.8	5,870	2,660	45.3	1,135	722	63.6	1,214	463	38.1	33,614	9,689	28.8
1990	24,092	5,593	23.2	5,979	2,698	45.1	1,214	762	62.8	1,154	451	39.1	32,693	9,619	29.4
1991	22,385	5,328	23.8	5,671	2,543	44.8	1,476	882	59.8	1,143	472	41.3	30,776	9,258	30.1
1992	21,387	4,738	22.2	5,385	2,460	45.7	1,335	834	62.5	1,292	564	43.7	29,485	8,636	29.3
1993	21,566	4,648	21.6	5,538	2,403	43.4	1,521	934	61.4	1,365	541	39.6	30,077	8,561	28.5
1994	21,997	4,870	22.1	5,574	2,409	43.2	1,757	1,063	60.5	1,508	610	40.5	30,901	8,981	29.1
1995	22,423	5,076	22.6	5,938	2,571	43.3	1,935	1,210	62.5	1,639	650	39.7	31,991	9,537	29.8
1996	22,505	4,997	22.2	5,904	2,545	43.1	2,147	1,384	64.5	1,832	681	37.2	32,437	9,624	29.7
1997	22,199	4,765	21.5	5,887	2,479	42.1	2,380	1,489	62.6	1,914	768	40.1	32,448	9,527	29.4
1998	21,194	4,672	22.0	5,921	2,560	43.2	2,713	1,705	62.8	2,042	823	40.3	31,899	9,773	30.6
1999	20,862	4,718	22.6	6,127	2,724	44.5	3,026	1,902	62.9	2,088	784	37.5	32,127	10,140	31.6
2000	20,699	4,548	22.0	6,003	2,558	42.6	3,358	2,064	61.5	2,129	771	36.2	32,225	9,959	30.9
2001	20,320	4,559	22.4	6,139	2,651	43.2	3,530	2,149	60.9	2,019	786	38.9	32,043	10,157	31.7
2002	20,569	4,794	23.3	6,100	2,755	45.2	4,031	2,471	61.3	2,109	699	33.1	32,843	10,729	32.7
2003	19,725	4,464	22.6	5,957	2,580	43.3	4,483	2,661	59.4	2,080	728	35.0	32,271	10,442	32.4
2004	19,192	4,353	22.7	5,838	2,597	44.5	4,760	2,929	61.5	2,046	695	34.0	31,866	10,590	33.2
2005	18,512	4,371	23.6	6,067	2,796	46.1	4,831	2,895	59.9	2,112	794	37.6	31,549	10,870	34.5
2006	17,925	4,376	24.4	5,993	2,844	47.5	4,928	2,899	58.8	1,815	609	33.6	30,686	10,742	35.0
2007	16,614	4,055	24.4	5,847	2,748	47.0	4,834	2,861	59.2	1,764	572	32.4	29,072	10,240	35.2
2008	14,646	3,653	24.9	5,097	2,435	47.8	4,214	2,435	57.8	1,492	514	34.5	25,462	9,043	35.5
2009	13,135	3,230	24.6	4,801	2,295	47.8	4,104	2,303	56.1	1,396	457	32.7	23,447	8,291	35.4
2010	12,491	2,933	23.5	4,486	2,098	46.8	3,942	2,264	57.4	1,346	413	30.7	22,273	7,710	34.6
2011	12,014	2,849	23.7	4,270	1,993	46.7	3,884	2,172	55.9	1,128	375	33.2	21,316	7,400	34.7
2012	12,361	3,025	24.5	4,343	2,012	46.3	3,885	2,161	55.6	1,167	326	27.9	21,779	7,527	34.6
2013	12,037	2,823	23.5	4,175	1,903	45.6	3,831	1,966	51.3	1,142	326	28.5	21,223	7,030	33.1
2014	11,947	2,663	22.3	4,249	1,907	44.9	3,800	1,965	51.7	1,021	305	29.9	21,050	6,849	32.5
2015	12,763	2,878	22.5	4,471	1,942	43.4	4,213	2,073	49.2	1,128	308	27.3	22,641	7,224	31.9
2016	13,508	2,973	22.0	4,470	1,933	43.2	4,462	2,160	48.4	1,240	347	28.0	23,787	7,466	31.4
2017	13,477	2,891	21.5	4,335	1,831	42.2	4,610	2,122	46.0	1,175	326	27.7	23,663	7,195	30.4
2018	12,888	2,607	20.2	4,267	1,701	39.9	4,554	1,965	43.1	1,081	259	24.0	22,845	6,566	28.7
2019	12,355	2,517	20.4	4,213	1,603	38.0	4,727	1,917	40.6	1,025	255	24.9	22,372	6,316	28.2
2020	12,628	2,794	22.1	4,321	1,776	41.1	6,015	2,361	39.3	938	219	23.3	23,914	7,157	29.9
2021	13,618	2,812	20.6	4,770	1,945	40.8	6,990	2,579	36.9	1,084	276	25.5	26,465	7,612	28.8
2022	12,691	2,690	21.2	4,572	1,797	39.3	7,103	2,587	36.4	1,047	236	22.5	25,420	7,312	28.8

*Includes occupants of other and unknown light trucks.

Note: The methodology for vehicle type classifications changed in 2020. For more details, see pages 5-6 of this report.

2



Crashes

2. Crashes

This chapter presents statistics about police-reported motor vehicle traffic crashes according to the most severe injury in the crash: **Fatal**, **Injury** (Nonfatal), and **Property Damage** (No Injury). The tables and figures are presented in four groups: Time, Location, Circumstances, and Alcohol. Below are some of the crash statistics you will find in this section.

- More than 5.9 million police-reported motor vehicle traffic crashes occurred in the United States in 2022. Twenty-eight percent of those crashes (1.7 million) resulted in injury, and fewer than 1 percent (39,221) resulted in death.
- Nine p.m. to 11:59 p.m. on Saturdays proved to be the deadliest 3-hour periods throughout 2022 with 1,263 fatal crashes, followed by midnight to 2:59 a.m. on Sundays with 1,239 fatal crashes.
- Fifty-seven percent of fatal traffic crashes involved only one vehicle, as compared with 30 percent of injury crashes and 30 percent of property-damage-only crashes.
- Collision with another motor vehicle in-transport was the most common first harmful event for fatal, injury, and property-damage-only crashes. Collisions with fixed objects and noncollisions accounted for only 17 percent of all crashes, but they accounted for 37 percent of fatal crashes.
- Thirty-one percent of all fatal traffic crashes involved alcohol-impaired driving, where the highest BAC among drivers involved in the crashes was .08 g/dL or higher. For fatal traffic crashes occurring from midnight to 2:59 a.m., 55 percent involved alcohol-impaired driving.

2. Crashes

Table 24. Crashes and Crash Rates, by Month and Crash Severity

Month	Crash Severity						Total Crashes	
	Fatal		Injury		Property Damage Only			
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
January	2,946	1.25	121,469	51.00	343,490	146.00	467,905	198.00
February	2,748	1.19	122,263	53.00	334,240	145.00	459,251	199.00
March	3,050	1.12	142,261	52.00	352,250	130.00	497,562	183.00
April	2,951	1.14	139,202	54.00	327,936	127.00	470,089	182.00
May	3,376	1.19	145,904	52.00	345,171	122.00	494,450	175.00
June	3,359	1.21	138,703	50.00	329,446	119.00	471,508	170.00
July	3,558	1.26	138,509	49.00	321,769	114.00	463,836	164.00
August	3,554	1.25	148,734	52.00	341,622	120.00	493,910	174.00
September	3,587	1.30	142,675	52.00	352,084	128.00	498,346	181.00
October	3,674	1.31	151,770	54.00	388,356	138.00	543,801	194.00
November	3,200	1.24	139,452	54.00	391,080	151.00	533,732	206.00
December	3,218	1.25	133,655	52.00	399,233	155.00	536,105	208.00
Total	39,221	1.23	1,664,598	52.00	4,226,677	132.00	5,930,496	186.00

Source: VMT—FHWA, Traffic Volume Trends, December 2023 (monthly), and 2022 Highway Statistics (VM-1) (annual)

*Crashes per 100 million VMT.

Note: Totals may not equal sum of components due to independent rounding.

2. Crashes

Table 25. Crashes, by Time of Day, Day of Week, and Crash Severity

Time of Day	Day of Week							Total
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Fatal Crashes								
Midnight to 2:59 a.m.	1,239	488	372	416	470	601	1,188	4,774
3 a.m. to 5:59 a.m.	684	402	351	389	393	445	669	3,333
6 a.m. to 8:59 a.m.	400	526	625	619	626	568	448	3,812
9 a.m. to 11:59 a.m.	448	501	477	500	521	547	537	3,531
Noon to 2:59 p.m.	589	672	631	655	626	727	744	4,644
3 p.m. to 5:59 p.m.	779	780	850	815	811	885	919	5,839
6 p.m. to 8:59 p.m.	1,017	851	834	918	930	1,079	1,181	6,810
9 p.m. to 11:59 p.m.	823	722	709	729	822	1,107	1,263	6,175
Unknown	62	38	38	32	39	37	57	303
Total	6,041	4,980	4,887	5,073	5,238	5,996	7,006	39,221
Injury Crashes								
Midnight to 2:59 a.m.	20,511	9,811	6,350	6,938	8,075	10,656	18,337	80,676
3 a.m. to 5:59 a.m.	12,144	9,074	5,121	8,934	7,857	10,133	12,634	65,897
6 a.m. to 8:59 a.m.	12,612	35,439	34,965	37,997	39,608	37,124	14,518	212,265
9 a.m. to 11:59 a.m.	22,684	31,167	31,433	32,289	30,977	32,307	28,217	209,075
Noon to 2:59 p.m.	37,757	44,147	45,399	39,779	45,301	53,822	42,408	308,613
3 p.m. to 5:59 p.m.	35,021	59,904	60,645	62,450	62,979	65,521	40,807	387,326
6 p.m. to 8:59 p.m.	31,431	34,689	32,464	33,721	37,258	44,372	38,756	252,690
9 p.m. to 11:59 p.m.	18,598	16,942	18,688	19,033	21,083	26,035	27,677	148,055
Total	190,757	241,172	235,067	241,142	253,138	279,969	223,353	1,664,598
Property-Damage-Only Crashes								
Midnight to 2:59 a.m.	47,816	18,570	17,252	13,127	18,057	21,729	40,755	177,307
3 a.m. to 5:59 a.m.	28,888	21,369	21,970	19,259	21,426	23,576	26,929	163,418
6 a.m. to 8:59 a.m.	25,869	93,861	109,148	101,837	99,026	98,009	35,367	563,118
9 a.m. to 11:59 a.m.	53,164	79,150	89,149	83,170	80,611	95,237	78,715	559,197
Noon to 2:59 p.m.	83,131	114,486	100,015	113,946	114,961	130,532	105,269	762,340
3 p.m. to 5:59 p.m.	87,069	167,711	170,656	172,873	168,089	175,417	100,210	1,042,027
6 p.m. to 8:59 p.m.	74,754	76,320	84,149	92,350	100,160	106,357	85,693	619,783
9 p.m. to 11:59 p.m.	49,614	36,863	36,769	37,986	45,617	64,261	68,377	339,489
Total	450,306	608,330	629,108	634,550	647,947	715,118	541,317	4,226,677
All Crashes								
Midnight to 2:59 a.m.	69,566	28,868	23,974	20,481	26,602	32,986	60,280	262,757
3 a.m. to 5:59 a.m.	41,716	30,844	27,442	28,582	29,676	34,155	40,232	232,647
6 a.m. to 8:59 a.m.	38,882	129,826	144,738	140,454	139,260	135,701	50,333	779,195
9 a.m. to 11:59 a.m.	76,296	110,819	121,059	115,960	112,109	128,092	107,468	771,803
Noon to 2:59 p.m.	121,476	159,305	146,045	154,380	160,888	185,081	148,422	1,075,597
3 p.m. to 5:59 p.m.	122,869	228,395	232,152	236,138	231,879	241,823	141,936	1,435,192
6 p.m. to 8:59 p.m.	107,202	111,860	117,448	126,988	138,348	151,807	125,630	879,283
9 p.m. to 11:59 p.m.	69,035	54,527	56,166	57,748	67,522	91,402	97,317	493,719
Unknown	62	38	38	32	39	37	57	303
Total	647,105	854,483	869,062	880,764	906,323	1,001,083	771,676	5,930,496

Note: Totals may not equal sum of components due to independent rounding.

2. Crashes

Figure 11. Average Fatal Crashes per Hour, by Time of Day, Weekdays, and Weekends



2. Crashes

Table 26. Crashes, by Weather Condition, Light Condition, and Crash Severity

Weather Condition	Light Condition					Total*
	Daylight	Dark, but Lighted	Dark	Dawn or Dusk	Other	
Fatal Crashes						
Normal	15,786	7,536	9,438	1,397	12	34,244
Rain	925	594	787	102	4	2,421
Snow/Sleet	213	98	160	27	0	498
Other	127	83	257	44	1	523
Unknown	623	213	438	62	2	1,535
Total	17,674	8,524	11,080	1,632	19	39,221
Injury Crashes						
Normal	1,037,849	252,628	151,461	54,297	65	1,496,300
Rain	77,438	27,364	16,333	6,794	145	128,075
Snow/Sleet	18,183	6,368	6,579	1,060	23	32,213
Other	4,235	642	2,478	655	0	8,010
Total	1,137,704	287,003	176,851	62,806	233	1,664,598
Property-Damage-Only Crashes						
Normal	2,597,705	556,533	415,993	157,317	121	3,727,669
Rain	210,646	73,352	55,332	17,420	0	356,750
Snow/Sleet	64,669	29,142	20,844	6,253	0	120,909
Other	9,579	3,961	5,463	2,346	0	21,349
Total	2,882,599	662,988	497,632	183,336	121	4,226,677
All Crashes						
Normal	3,651,339	816,697	576,892	213,011	199	5,258,213
Rain	289,009	101,310	72,452	24,316	149	487,246
Snow/Sleet	83,065	35,608	27,583	7,341	23	153,620
Other	13,941	4,686	8,198	3,045	1	29,882
Unknown	623	213	438	62	2	1,535
Total	4,037,978	958,515	685,564	247,774	374	5,930,496

*Includes fatal crashes for which light conditions were unknown.

Note: Totals may not equal sum of components due to independent rounding.

2. Crashes

Table 27. Fatal Crashes, by Emergency Medical Services Response Times Within Designated Minutes and Land Use

Response Time (Minutes)	Time of Crash to EMS Notification		EMS Notification to EMS Arrival at Scene		EMS Arrival at Scene to Hospital Arrival		Time of Crash to Hospital Arrival	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Rural Fatal Crashes								
0 to 10	5,022	87.2	3,238	47.7	91	3.1	20	0.7
11 to 20	432	7.5	2,527	37.3	340	11.7	88	3.2
21 to 30	114	2.0	689	10.2	593	20.4	223	8.0
31 to 40	51	0.9	183	2.7	613	21.1	469	16.8
41 to 50	37	0.6	72	1.1	485	16.7	516	18.5
51 to 60	27	0.5	31	0.5	329	11.3	418	15.0
61 to 120	73	1.3	43	0.6	460	15.8	1,057	37.9
Total*	5,756	100.0	6,783	100.0	2,911	100.0	2,791	100.0
Urban Fatal Crashes								
0 to 10	7,779	93.5	7,203	81.8	353	7.6	66	1.4
11 to 20	316	3.8	1,313	14.9	1,408	30.1	586	12.7
21 to 30	85	1.0	163	1.9	1,432	30.7	1,327	28.8
31 to 40	41	0.5	55	0.6	780	16.7	1,129	24.5
41 to 50	20	0.2	22	0.2	361	7.7	706	15.3
51 to 60	24	0.3	17	0.2	180	3.9	353	7.7
61 to 120	55	0.7	34	0.4	156	3.3	435	9.5
Total*	8,320	100.0	8,807	100.0	4,670	100.0	4,602	100.0

*Includes fatal crashes for which both times were known.

2. Crashes

Table 28. Crashes, by Crash Type, Relation to Roadway, and Crash Severity

Crash Type	Relation to Roadway					Unknown	Total
	On Roadway	Off Roadway					
		Roadside	Shoulder	Median	Other/Unknown Location*		
Fatal Crashes							
Single Vehicle	8,575	10,761	492	1,173	1,053	124	22,178
Multi-Vehicle	16,348	321	109	209	46	10	17,043
Total	24,923	11,082	601	1,382	1,099	134	39,221
Injury Crashes							
Single Vehicle	200,911	232,714	7,334	36,674	19,720	376	497,729
Multi-Vehicle	1,155,620	4,435	1,347	4,733	733	0	1,166,868
Total	1,356,531	237,149	8,681	41,408	20,454	376	1,664,598
Property-Damage-Only Crashes							
Single Vehicle	595,804	500,195	13,569	85,808	53,982	324	1,249,681
Multi-Vehicle	2,961,861	6,037	2,406	6,087	605	0	2,976,996
Total	3,557,665	506,232	15,975	91,894	54,587	324	4,226,677
All Crashes							
Single Vehicle	805,290	743,670	21,395	123,655	74,756	823	1,769,589
Multi-Vehicle	4,133,829	10,793	3,862	11,029	1,384	10	4,160,907
Total	4,939,119	754,463	25,257	134,684	76,140	833	5,930,496

*Includes outside trafficway, gore, separator, pedestrian refuge island or traffic island, and off roadway - location unknown.
 Note: Totals may not equal sum of components due to independent rounding.

2. Crashes

Table 29. Crashes, by First Harmful Event, Manner of Collision, and Crash Severity

First Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property-Damage-Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision With Motor Vehicle in-Transport:								
Angle	7,168	18.3	480,976	28.9	855,168	20.2	1,343,312	22.7
Rear End	2,817	7.2	455,743	27.4	1,227,522	29.0	1,686,082	28.4
Sideswipe	1,067	2.7	120,224	7.2	714,252	16.9	835,543	14.1
Head On	4,253	10.8	88,746	5.3	89,106	2.1	182,105	3.1
Other/Unknown	156	0.4	5,073	0.3	49,112	1.2	54,341	0.9
<i>Subtotal</i>	<i>15,461</i>	<i>39.4</i>	<i>1,150,762</i>	<i>69.1</i>	<i>2,935,160</i>	<i>69.4</i>	<i>4,101,383</i>	<i>69.2</i>
Collision With Fixed Object:								
Pole/Post	1,632	4.2	48,061	2.9	140,080	3.3	189,773	3.2
Culvert/Curb/Ditch	2,815	7.2	67,176	4.0	139,875	3.3	209,866	3.5
Shrubbery/Tree	2,601	6.6	40,814	2.5	57,011	1.3	100,425	1.7
Guard Rail	977	2.5	22,335	1.3	66,370	1.6	89,682	1.5
Embankment	889	2.3	16,011	1.0	20,799	0.5	37,699	0.6
Bridge	228	0.6	2,971	0.2	9,140	0.2	12,339	0.2
Other/Unknown	2,055	5.2	61,575	3.7	172,039	4.1	235,669	4.0
<i>Subtotal</i>	<i>11,197</i>	<i>28.5</i>	<i>258,942</i>	<i>15.6</i>	<i>605,314</i>	<i>14.3</i>	<i>875,453</i>	<i>14.8</i>
Collision With Object Not Fixed:								
Parked Motor Vehicle	497	1.3	40,606	2.4	284,974	6.7	326,077	5.5
Animal	173	0.4	33,761	2.0	273,198	6.5	307,133	5.2
Pedestrian	6,931	17.7	60,496	3.6	1,459	0.0	68,886	1.2
Pedalcyclist	1,082	2.8	45,814	2.8	3,189	0.1	50,085	0.8
Train	120	0.3	348	0.0	823	0.0	1,291	0.0
Other/Unknown	524	1.3	17,161	1.0	70,681	1.7	88,366	1.5
<i>Subtotal</i>	<i>9,327</i>	<i>23.8</i>	<i>198,186</i>	<i>11.9</i>	<i>634,324</i>	<i>15.0</i>	<i>841,837</i>	<i>14.2</i>
Noncollision:								
Rollover	2,735	7.0	50,327	3.0	28,534	0.7	81,596	1.4
Other/Unknown	407	1.0	6,380	0.4	23,346	0.6	30,133	0.5
<i>Subtotal</i>	<i>3,142</i>	<i>8.0</i>	<i>56,707</i>	<i>3.4</i>	<i>51,879</i>	<i>1.2</i>	<i>111,729</i>	<i>1.9</i>
Total*	39,221	100.0	1,664,598	100.0	4,226,677	100.0	5,930,496	100.0

*Includes fatal crashes where the most harmful event was unknown or there was a harmful event, but the details were not reported.

Note: Totals may not equal sum of components due to independent rounding.

2. Crashes

Table 30. Two-Vehicle Crashes, by Vehicle Type and Crash Severity

Vehicle Type	Vehicle Type					
	Passenger Car	Light Truck	Large Truck	Motorcycle	Bus	Other/Unknown
Fatal Crashes (Total = 14,132)						
Passenger Car.....	1,496	3,743	1,216	1,061	38	162
Light Truck.....		2,105	1,471	1,795	56	233
Large Truck.....			174	333	8	46
Motorcycle.....				71	20	59
Bus.....					0	2
Other/Unknown.....						43
Injury Crashes (Total = 994,543)						
Passenger Car.....	175,941	365,507	32,865	16,522	2,645	34,900
Light Truck.....		194,725	34,592	15,955	3,356	31,459
Large Truck.....			3,280	1,190	262	3,823
Motorcycle.....				936	157	6,453
Bus.....					268	662
Other/Unknown.....						69,045
Property-Damage-Only Crashes (Total = 2,791,038)						
Passenger Car.....	425,824	1,010,137	109,599	5,225	9,682	115,273
Light Truck.....		610,346	123,750	5,322	15,342	100,513
Large Truck.....			22,579	145	2,145	25,004
Motorcycle.....				0	0	3,184
Bus.....					133	4,839
Other/Unknown.....						201,994

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

2. Crashes

Table 31. Fatal Crashes and Percentage Alcohol-Impaired Driving, by Time of Day and Crash Type

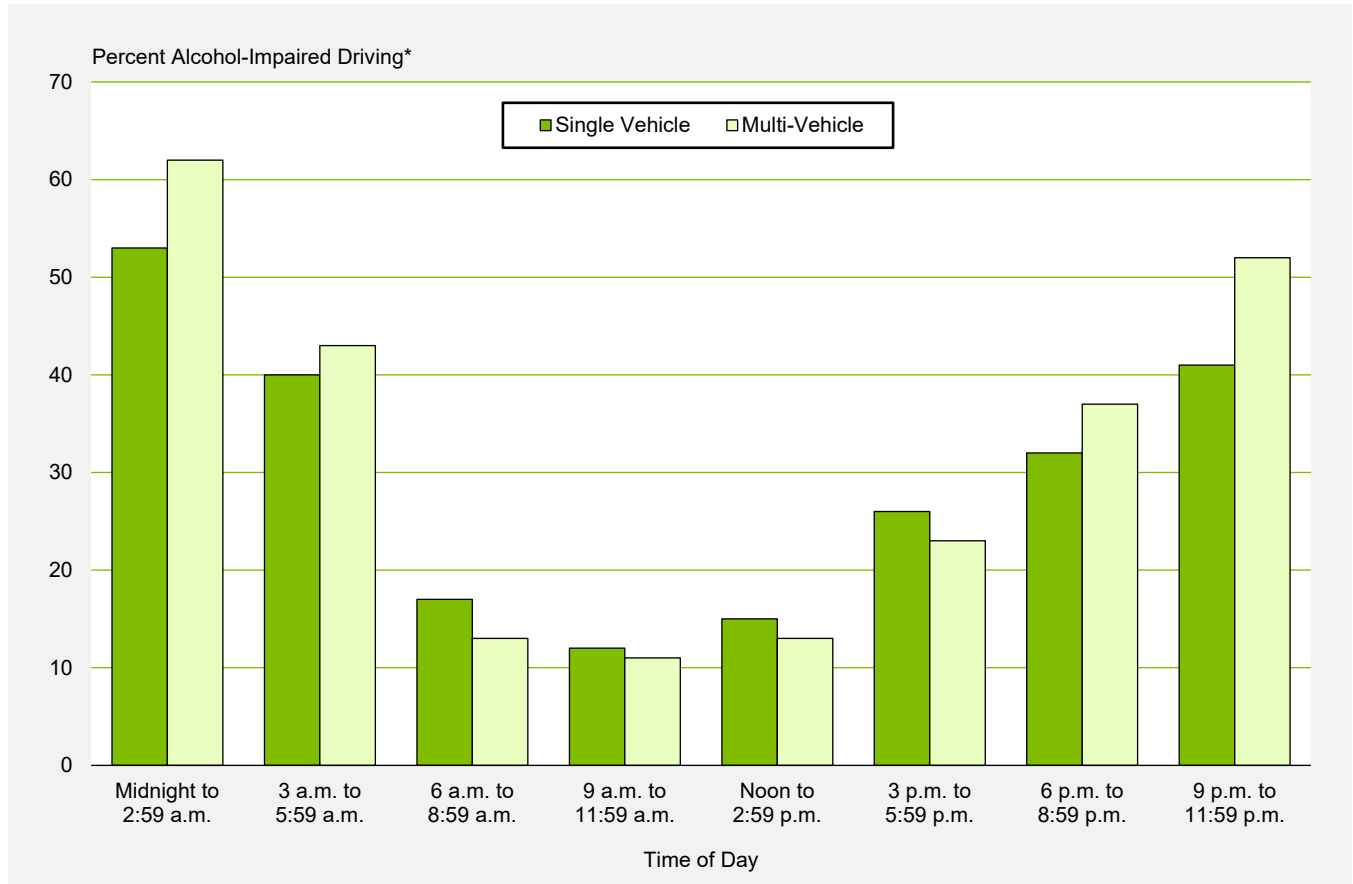
Time of Day	Crash Type						Total		
	Single Vehicle			Multi-Vehicle			Number	Alcohol-Impaired Driving*	Percentage Alcohol-Impaired Driving*
	Number	Alcohol-Impaired Driving*	Percentage Alcohol-Impaired Driving*	Number	Alcohol-Impaired Driving*	Percentage Alcohol-Impaired Driving*			
Midnight to 2:59 a.m.	3,335	1,752	53	1,439	893	62	4,774	2,645	55
3 a.m. to 5:59 a.m.	2,173	870	40	1,160	503	43	3,333	1,373	41
6 a.m. to 8:59 a.m.	1,962	337	17	1,850	239	13	3,812	576	15
9 a.m. to 11:59 a.m.	1,618	202	12	1,913	214	11	3,531	416	12
Noon to 2:59 p.m.	2,051	304	15	2,593	350	13	4,644	654	14
3 p.m. to 5:59 p.m.	2,702	691	26	3,137	710	23	5,839	1,401	24
6 p.m. to 8:59 p.m.	4,004	1,262	32	2,806	1,050	37	6,810	2,312	34
9 p.m. to 11:59 p.m.	4,062	1,667	41	2,113	1,097	52	6,175	2,764	45
Unknown	271	119	44	32	10	31	303	129	43
Total	22,178	7,204	32	17,043	5,066	30	39,221	12,270	31

*Highest BAC among drivers involved in the crash was .08 g/dL or greater.

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

2. Crashes

Figure 12. Percentage of Fatal Crashes Involving Alcohol-Impaired Driving, by Time of Day and Crash Type



*Highest BAC among drivers involved in the crash was .08 g/dL or greater.

Note: NHTSA estimates BACs when alcohol test results are unknown. For more details, see page 5 of this report.

3



Vehicles

3. Vehicles

Statistics about the vehicles involved in police-reported motor vehicle traffic crashes are presented in this chapter, according to six major vehicle types: passenger cars, light trucks (including pickups, vans, and utility vehicles with a gross vehicle weight rating of 10,000 pounds or less), large trucks (including single-unit trucks and truck tractors with a GVWR of more than 10,000 pounds), motorcycles (including two- and three-wheeled motorcycles, off-road motorcycles, mopeds, motor scooters, minibikes, and pocket bikes), buses (including school buses and transit buses), and other vehicles (including all-terrain vehicles, farm and construction equipment, and motorhomes). The tables and figures are presented for all vehicle types first, then by individual vehicle type. Below are some of the vehicle statistics you will find in this section.

- Eighty-one percent of the 10.5 million vehicles involved in motor vehicle traffic crashes in 2022 were passenger cars or light trucks.
- Large trucks accounted for 9.6 percent of the vehicles in fatal traffic crashes, but only 3.9 percent of the vehicles involved in injury crashes and 5.5 percent of the vehicles involved in property-damage-only crashes. Of the 5,837 large trucks involved in fatal crashes, 64.4 percent were combination trucks.
- The proportion of vehicles that rolled over in fatal traffic crashes (15.9%) was more than 3 times as high as the proportion in injury crashes (4.3%) and more than 14 times as high as the proportion in property-damage-only crashes (1.1%).
- Compared with passenger cars, utility vehicles, vans, large trucks, and buses, pickup trucks experienced the highest rollover rate in fatal traffic crashes (20.8%). Large trucks experienced the highest rollover rate in injury crashes (9.2%) and property-damage-only crashes (2.2%).
- Fires occurred in 0.2 percent of the vehicles involved in all traffic crashes in 2022. For fatal traffic crashes, however, fires occurred in 3.7 percent of the vehicles involved.
- Regardless of crash severity, most vehicles in single- and two-vehicle crashes were going straight prior to the crashes. The next most common vehicle maneuver differed by crash severity: negotiating a curve for fatal traffic crashes, turning left for injury crashes, and stopped in roadway for property-damage-only crashes.
- Motorcycles in fatal traffic crashes had the highest proportion of collisions with fixed objects (13.2%), and buses in fatal traffic crashes had the lowest proportion (4.8%).

3. Vehicles

Table 32. Vehicles Involved in Crashes, by Relation to Junction, Traffic Control Device, and Crash Severity

Relation to Junction	Traffic Control Device				Total
	None	Traffic Signal	Stop Sign	Other/Unknown	
Fatal Crashes					
Nonjunction	27,668	122	26	9,039	36,855
Junction:					
Intersection	4,385	5,088	2,513	1,116	13,102
Intersection-Related	1,475	2,195	541	501	4,712
Other/Unknown	3,929	117	83	1,703	5,832
Total	37,457	7,522	3,163	12,359	60,501
Injury Crashes					
Nonjunction	736,992	10,961	1,511	266,656	1,016,121
Junction:					
Intersection	231,438	476,159	180,236	118,968	1,006,800
Intersection-Related	140,584	376,432	55,168	80,925	653,109
Other/Unknown	262,383	8,967	8,460	96,446	376,256
Total	1,371,398	872,519	245,375	562,995	3,052,287
Property-Damage-Only Crashes					
Nonjunction	2,243,598	23,138	3,609	624,915	2,895,260
Junction:					
Intersection	421,284	674,674	336,786	228,650	1,661,394
Intersection-Related	400,541	1,010,610	195,158	232,892	1,839,202
Other/Unknown	744,641	33,127	21,628	220,809	1,020,205
Total	3,810,064	1,741,550	557,182	1,307,266	7,416,061
All Crashes					
Nonjunction	3,008,259	34,221	5,146	900,610	3,948,235
Junction:					
Intersection	657,107	1,155,921	519,535	348,734	2,681,297
Intersection-Related	542,601	1,389,237	250,868	314,318	2,497,024
Other/Unknown	1,010,953	42,211	30,171	318,958	1,402,293
Total	5,218,919	2,621,590	805,720	1,882,620	10,528,849

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 33. Vehicles Involved in Crashes, by Speed Limit, Crash Type, and Crash Severity

Speed Limit	Crash Type				Total	
	Single Vehicle		Multi-Vehicle			
	Number	Percent	Number	Percent	Number	Percent
Fatal Crashes						
30 mph or less	2,976	13.4	2,735	7.1	5,711	9.4
35 or 40 mph	4,790	21.6	6,297	16.4	11,087	18.3
45 or 50 mph	4,352	19.6	8,032	21.0	12,384	20.5
55 mph	4,797	21.6	9,766	25.5	14,563	24.1
60 mph or higher	4,134	18.6	9,621	25.1	13,755	22.7
No Statutory Limit	99	0.4	488	1.3	587	1.0
Unknown	1,030	4.6	1,384	3.6	2,414	4.0
Total	22,178	100.0	38,323	100.0	60,501	100.0
Injury Crashes						
30 mph or less	100,976	20.3	319,383	12.5	420,359	13.8
35 or 40 mph	90,803	18.2	682,240	26.7	773,043	25.3
45 or 50 mph	69,707	14.0	614,896	24.1	684,602	22.4
55 mph	68,727	13.8	228,369	8.9	297,096	9.7
60 mph or higher	67,670	13.6	280,151	11.0	347,821	11.4
No Statutory Limit	7,910	1.6	54,539	2.1	62,450	2.0
Unknown	91,936	18.5	374,980	14.7	466,916	15.3
Total	497,729	100.0	2,554,558	100.0	3,052,287	100.0
Property-Damage-Only Crashes						
30 mph or less	286,723	22.9	981,359	15.9	1,268,082	17.1
35 or 40 mph	185,776	14.9	1,623,966	26.3	1,809,742	24.4
45 or 50 mph	139,019	11.1	1,378,843	22.4	1,517,861	20.5
55 mph	189,794	15.2	483,861	7.8	673,655	9.1
60 mph or higher	167,259	13.4	640,468	10.4	807,727	10.9
No Statutory Limit	33,237	2.7	181,958	3.0	215,195	2.9
Unknown	247,872	19.8	875,926	14.2	1,123,799	15.2
Total	1,249,681	100.0	6,166,380	100.0	7,416,061	100.0
All Crashes						
30 mph or less	390,675	22.1	1,303,476	14.9	1,694,152	16.1
35 or 40 mph	281,369	15.9	2,312,503	26.4	2,593,871	24.6
45 or 50 mph	213,077	12.0	2,001,770	22.9	2,214,848	21.0
55 mph	263,318	14.9	721,996	8.2	985,314	9.4
60 mph or higher	239,064	13.5	930,240	10.6	1,169,303	11.1
No Statutory Limit	41,246	2.3	236,985	2.7	278,232	2.6
Unknown	340,839	19.3	1,252,290	14.3	1,593,129	15.1
Total	1,769,589	100.0	8,759,260	100.0	10,528,849	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 34. Vehicles Involved in Fatal Crashes, by Speed Limit and Land Use

Speed Limit	Land Use						Total	
	Rural		Urban		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
30 mph or less	701	12.3	4,937	86.4	73	1.3	5,711	100.0
35 or 40 mph	1,610	14.5	9,464	85.4	13	0.1	11,087	100.0
45 or 50 mph	3,500	28.3	8,868	71.6	16	0.1	12,384	100.0
55 mph	9,783	67.2	4,773	32.8	7	0.0	14,563	100.0
60 mph or higher	7,314	53.2	6,437	46.8	4	0.0	13,755	100.0
No Statutory Limit	167	28.4	401	68.3	19	3.2	587	100.0
Unknown	608	25.2	1,720	71.3	86	3.6	2,414	100.0
Total	23,683	39.1	36,600	60.5	218	0.4	60,501	100.0

3. Vehicles

Table 35. Vehicles Involved in Crashes, by Number of Lanes, Trafficway Flow, and Crash Severity

Number of Lanes	Trafficway Flow					Total
	Not Divided	Divided	One-Way	Entrance/Exit Ramps	Unknown	
Fatal Crashes						
One Lane	37	239	160	550	16	1,002
Two Lanes	26,053	9,284	284	395	45	36,061
Three Lanes	2,226	5,739	230	88	9	8,292
Four Lanes	2,495	3,979	75	18	13	6,580
More Than Four	5,063	2,151	28	5	19	7,266
Unknown	250	145	3	16	329	743
Total*	36,124	21,537	780	1,072	431	60,501
Injury Crashes						
One Lane	4,692	20,165	7,109	22,620	1,951	56,537
Two Lanes	640,569	239,237	18,607	19,011	65,825	983,249
Three Lanes	125,939	305,925	10,540	6,219	9,488	458,111
Four Lanes	133,687	205,124	3,887	2,971	6,688	352,358
More Than Four	280,901	141,721	1,026	550	2,649	426,847
Unknown	179,979	162,540	5,890	13,964	350,504	712,876
Total*	1,365,766	1,074,711	47,060	65,335	437,105	3,052,287
Property-Damage-Only Crashes						
One Lane	19,011	58,088	18,459	65,750	2,282	163,591
Two Lanes	1,503,300	558,914	51,437	49,225	150,080	2,312,956
Three Lanes	268,479	605,117	29,422	17,909	19,095	940,022
Four Lanes	290,351	385,569	12,025	10,465	11,010	709,419
More Than Four	540,757	270,969	4,389	285	2,757	819,157
Unknown	542,142	671,007	36,213	54,513	952,344	2,256,219
Total*	3,164,041	2,549,664	151,945	198,146	1,137,569	7,416,061
All Crashes						
One Lane	23,740	78,492	25,728	88,920	4,249	221,129
Two Lanes	2,169,922	807,434	70,329	68,631	215,950	3,332,266
Three Lanes	396,644	916,781	40,192	24,216	28,592	1,406,425
Four Lanes	426,533	594,672	15,987	13,454	17,711	1,068,357
More Than Four	826,721	414,841	5,443	839	5,425	1,253,271
Unknown	722,371	833,691	42,106	68,493	1,303,178	2,969,838
Total*	4,565,931	3,645,912	199,785	264,553	1,575,105	10,528,849

*Includes vehicles in non-trafficway areas.

Note: Totals may not equal sum of components due to independent rounding.

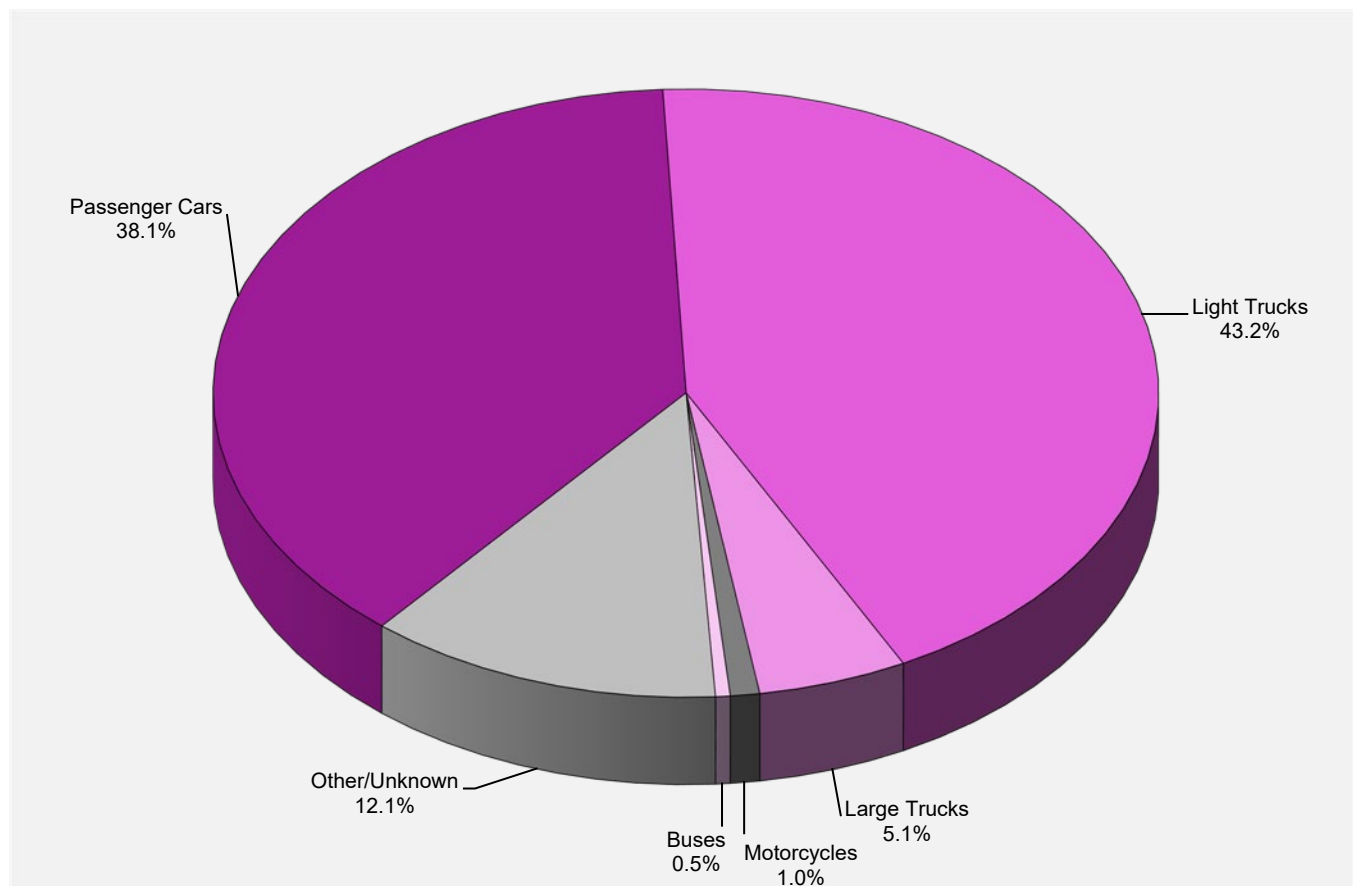
3. Vehicles

Table 36. Vehicles Involved in Crashes, by Vehicle Type and Crash Severity

Vehicle Type	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Passenger Cars	20,049	33.1	1,207,127	39.5	2,788,643	37.6	4,015,818	38.1
Light Trucks	25,807	42.7	1,289,765	42.3	3,233,284	43.6	4,548,856	43.2
Large Trucks	5,837	9.6	120,190	3.9	410,397	5.5	536,424	5.1
Motorcycles	6,359	10.5	79,073	2.6	17,289	0.2	102,721	1.0
Buses	213	0.4	10,398	0.3	42,619	0.6	53,230	0.5
Other/Unknown	2,236	3.7	345,733	11.3	923,830	12.5	1,271,799	12.1
Total	60,501	100.0	3,052,287	100.0	7,416,061	100.0	10,528,849	100.0

Note: Totals may not equal sum of components due to independent rounding.

Figure 13. Proportion of Vehicles Involved in Traffic Crashes



3. Vehicles

Table 37. Vehicles Involved in Fatal Crashes, by Vehicle Body Class

Vehicle Body Class	Number	Percent
Passenger Cars	20,049	33.1
Convertible	427	0.7
Sedan	15,757	26.0
Coupe	1,777	2.9
Hatchback	1,782	2.9
Wagon	306	0.5
Light Trucks	25,807	42.7
Utility	14,117	23.3
Minivan	1,160	1.9
Cargo Van	522	0.9
Step Van	2	0.0
Other Van Type	364	0.6
Light Pickup	9,627	15.9
Other Light Truck	15	0.0
Large Trucks	5,837	9.6
Utility	1	0.0
Cargo Van	29	0.0
Step Van	32	0.1
Other Van Type	35	0.1
Large Pickup	764	1.3
Single-Unit Truck	1,476	2.4
Truck Tractor	3,444	5.7
Other Large Truck	56	0.1
Motorcycles	6,359	10.5
2-Wheel Motorcycle (excluding Motor Scooters)	5,692	9.4
Moped	41	0.1
3-Wheel Motorcycle (2 Rear Wheels)	81	0.1
Off-Road Motorcycle	140	0.2
Unenclosed 3-Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel)	40	0.1
Motor Scooter	242	0.4
Other Motored Cycle Type (Minibikes, Pocket Bikes)	20	0.0
Unknown Motored Cycle Type	103	0.2
Buses	213	0.4
School Bus	91	0.2
Intercity Bus	14	0.0
Transit Bus	74	0.1
Other Bus	34	0.1
Other Vehicle Types	2,236	3.7
Motorhome	51	0.1
All-Terrain Vehicle	257	0.4
Recreational Off-Road Vehicle	209	0.3
Snowmobile	14	0.0
Farm Equipment	90	0.1
Construction Equipment	13	0.0
Low-Speed Vehicle	5	0.0
Golf Cart	23	0.0
Street Sweeper	3	0.0
Other Vehicle	111	0.2
Unknown Vehicle Types	1,460	2.4
Total	60,501	100.0

Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

3. Vehicles

Table 38. Vehicles Involved in Crashes, by Vehicle Type, Rollover Occurrence, and Crash Severity

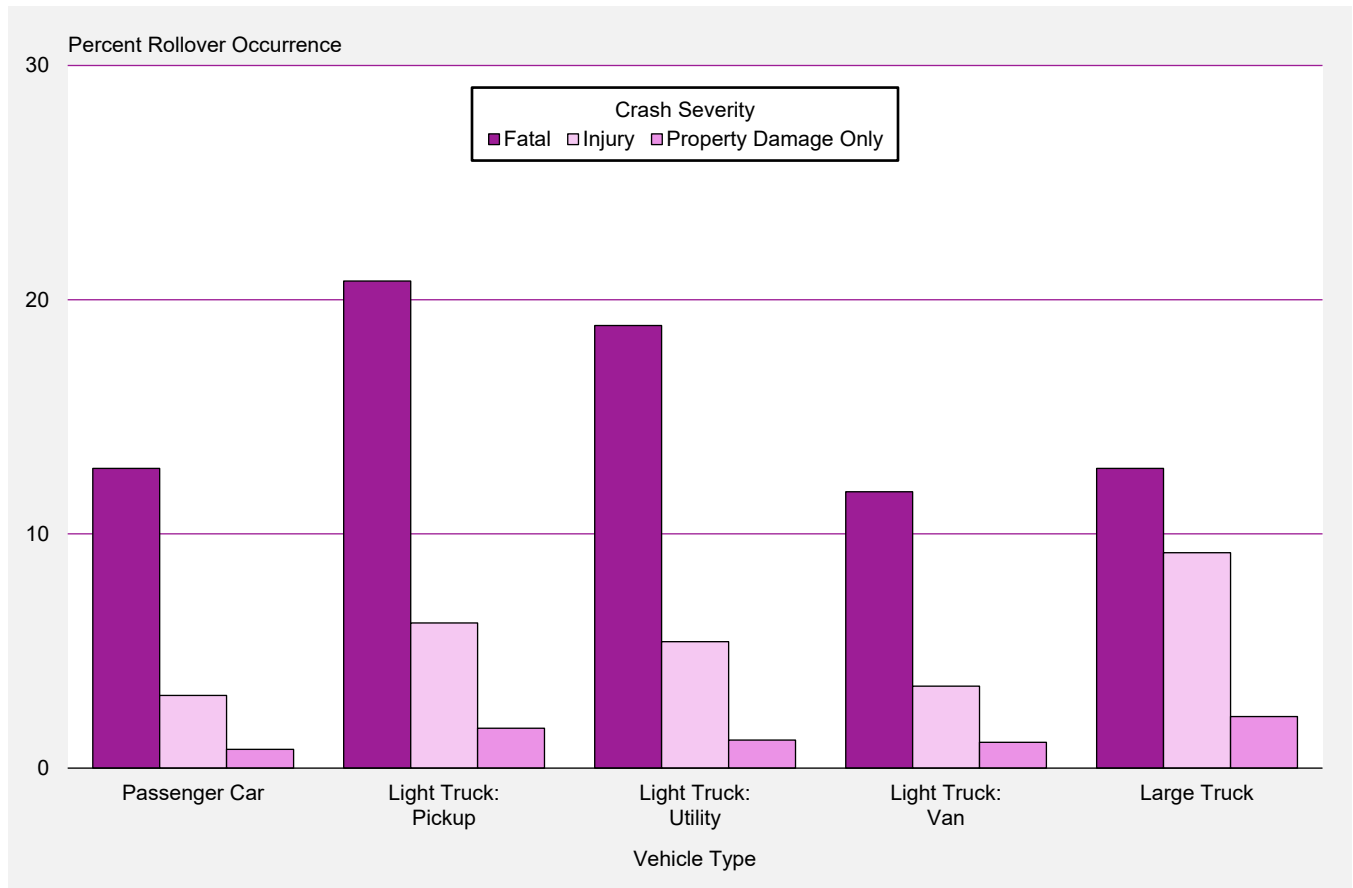
Vehicle Type	Rollover Occurrence				Total	
	Yes		No			
	Number	Percent	Number	Percent	Number	Percent
Fatal Crashes						
Passenger Cars	2,567	12.8	17,482	87.2	20,049	100.0
Light Trucks						
Pickup	2,006	20.8	7,621	79.2	9,627	100.0
Utility	2,671	18.9	11,446	81.1	14,117	100.0
Van	242	11.8	1,806	88.2	2,048	100.0
Other	3	20.0	12	80.0	15	100.0
Large Trucks	749	12.8	5,088	87.2	5,837	100.0
Buses	5	2.3	208	97.7	213	100.0
Other/Unknown	382	17.1	1,854	82.9	2,236	100.0
Total*	8,625	15.9	45,517	84.1	54,142	100.0
Injury Crashes						
Passenger Cars	37,242	3.1	1,169,885	96.9	1,207,127	100.0
Light Trucks						
Pickup	21,925	6.2	329,812	93.8	351,737	100.0
Utility	44,577	5.4	775,809	94.6	820,386	100.0
Van	4,065	3.5	113,387	96.5	117,452	100.0
Other	0	0.0	191	100.0	191	100.0
Large Trucks	11,116	9.2	109,074	90.8	120,190	100.0
Buses	0	0.0	10,398	100.0	10,398	100.0
Other/Unknown	7,802	2.3	337,932	97.7	345,733	100.0
Total*	126,726	4.3	2,846,488	95.7	2,973,214	100.0
Property-Damage-Only Crashes						
Passenger Cars	22,008	0.8	2,766,634	99.2	2,788,643	100.0
Light Trucks						
Pickup	15,707	1.7	921,776	98.3	937,483	100.0
Utility	23,267	1.2	1,980,231	98.8	2,003,498	100.0
Van	3,291	1.1	288,401	98.9	291,692	100.0
Other	0	0.0	611	100.0	611	100.0
Large Trucks	9,166	2.2	401,231	97.8	410,397	100.0
Buses	0	0.0	42,619	100.0	42,619	100.0
Other/Unknown	5,050	0.5	918,780	99.5	923,830	100.0
Total*	78,489	1.1	7,320,283	98.9	7,398,772	100.0
All Crashes						
Passenger Cars	61,817	1.5	3,954,001	98.5	4,015,818	100.0
Light Trucks						
Pickup	39,637	3.1	1,259,209	96.9	1,298,847	100.0
Utility	70,515	2.5	2,767,486	97.5	2,838,001	100.0
Van	7,597	1.8	403,594	98.2	411,191	100.0
Other	3	0.4	814	99.6	817	100.0
Large Trucks	21,031	3.9	515,393	96.1	536,424	100.0
Buses	5	0.0	53,225	100.0	53,230	100.0
Other/Unknown	13,234	1.0	1,258,565	99.0	1,271,799	100.0
Total*	213,840	2.1	10,212,288	97.9	10,426,128	100.0

*Excludes motorcycles.

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Figure 14. Percentage Rollover Occurrence, by Vehicle Type and Crash Severity



3. Vehicles

Table 39. Vehicles Involved in Crashes, by Vehicle Type, Fire Occurrence, and Crash Severity

Vehicle Type	Fire Occurrence				Total	
	Yes		No			
	Number	Percent	Number	Percent	Number	Percent
Fatal Crashes						
Passenger Cars	819	4.1	19,230	95.9	20,049	100.0
Light Trucks	925	3.6	24,882	96.4	25,807	100.0
Large Trucks	344	5.9	5,493	94.1	5,837	100.0
Motorcycles	104	1.6	6,255	98.4	6,359	100.0
Buses	3	1.4	210	98.6	213	100.0
Other/Unknown	21	0.9	2,215	99.1	2,236	100.0
Total	2,216	3.7	58,285	96.3	60,501	100.0
Injury Crashes						
Passenger Cars	2,673	0.2	1,204,453	99.8	1,207,127	100.0
Light Trucks	2,169	0.2	1,287,597	99.8	1,289,765	100.0
Large Trucks	549	0.5	119,641	99.5	120,190	100.0
Motorcycles	200	0.3	78,873	99.7	79,073	100.0
Buses	0	0.0	10,398	100.0	10,398	100.0
Other/Unknown	426	0.1	345,307	99.9	345,733	100.0
Total	6,018	0.2	3,046,269	99.8	3,052,287	100.0
Property-Damage-Only Crashes						
Passenger Cars	4,880	0.2	2,783,762	99.8	2,788,643	100.0
Light Trucks	3,662	0.1	3,229,622	99.9	3,233,284	100.0
Large Trucks	1,832	0.4	408,565	99.6	410,397	100.0
Motorcycles	0	0.0	17,289	100.0	17,289	100.0
Buses	0	0.0	42,619	100.0	42,619	100.0
Other/Unknown	0	0.0	923,830	100.0	923,830	100.0
Total	10,374	0.1	7,405,687	99.9	7,416,061	100.0
All Crashes						
Passenger Cars	8,373	0.2	4,007,446	99.8	4,015,818	100.0
Light Trucks	6,756	0.1	4,542,101	99.9	4,548,856	100.0
Large Trucks	2,725	0.5	533,699	99.5	536,424	100.0
Motorcycles	304	0.3	102,417	99.7	102,721	100.0
Buses	3	0.0	53,227	100.0	53,230	100.0
Other/Unknown	447	0.0	1,271,352	100.0	1,271,799	100.0
Total	18,607	0.2	10,510,242	99.8	10,528,849	100.0

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

3. Vehicles

Table 40. Vehicles Involved in Single-Vehicle and Two-Vehicle Crashes, by Vehicle Maneuver and Crash Severity

Vehicle Maneuver	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Going Straight	31,563	62.9	1,417,099	57.1	3,537,272	51.9	4,985,934	53.3
Turning Left	4,057	8.1	339,126	13.7	663,194	9.7	1,006,376	10.8
Stopped in Roadway	746	1.5	232,220	9.4	786,989	11.5	1,019,955	10.9
Turning Right	482	1.0	86,649	3.5	318,584	4.7	405,715	4.3
Decelerating in Road	422	0.8	86,633	3.5	298,869	4.4	385,924	4.1
Merging/Changing Lanes	878	1.8	73,194	2.9	435,650	6.4	509,722	5.5
Negotiating a Curve	9,327	18.6	151,657	6.1	364,464	5.3	525,448	5.6
Backing Up (Other Than for Parking Position)	111	0.2	14,678	0.6	154,129	2.3	168,918	1.8
Passing or Overtaking Another Vehicle	924	1.8	20,215	0.8	84,487	1.2	105,626	1.1
Starting in Road	236	0.5	26,562	1.1	66,318	1.0	93,116	1.0
Leaving a Parking Position	32	0.1	3,799	0.2	27,019	0.4	30,849	0.3
Making a U-Turn	253	0.5	18,561	0.7	41,404	0.6	60,219	0.6
Entering a Parking Position	12	0.0	2,177	0.1	14,989	0.2	17,178	0.2
Disabled or "Parked" in Travel Lane	85	0.2	1,887	0.1	2,981	0.0	4,953	0.1
Other Maneuver	371	0.7	7,297	0.3	17,923	0.3	25,591	0.3
Total*	50,157	100.0	2,481,754	100.0	6,814,272	100.0	9,346,183	100.0

*Includes vehicles involved in fatal crashes with unknown vehicle maneuver.

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

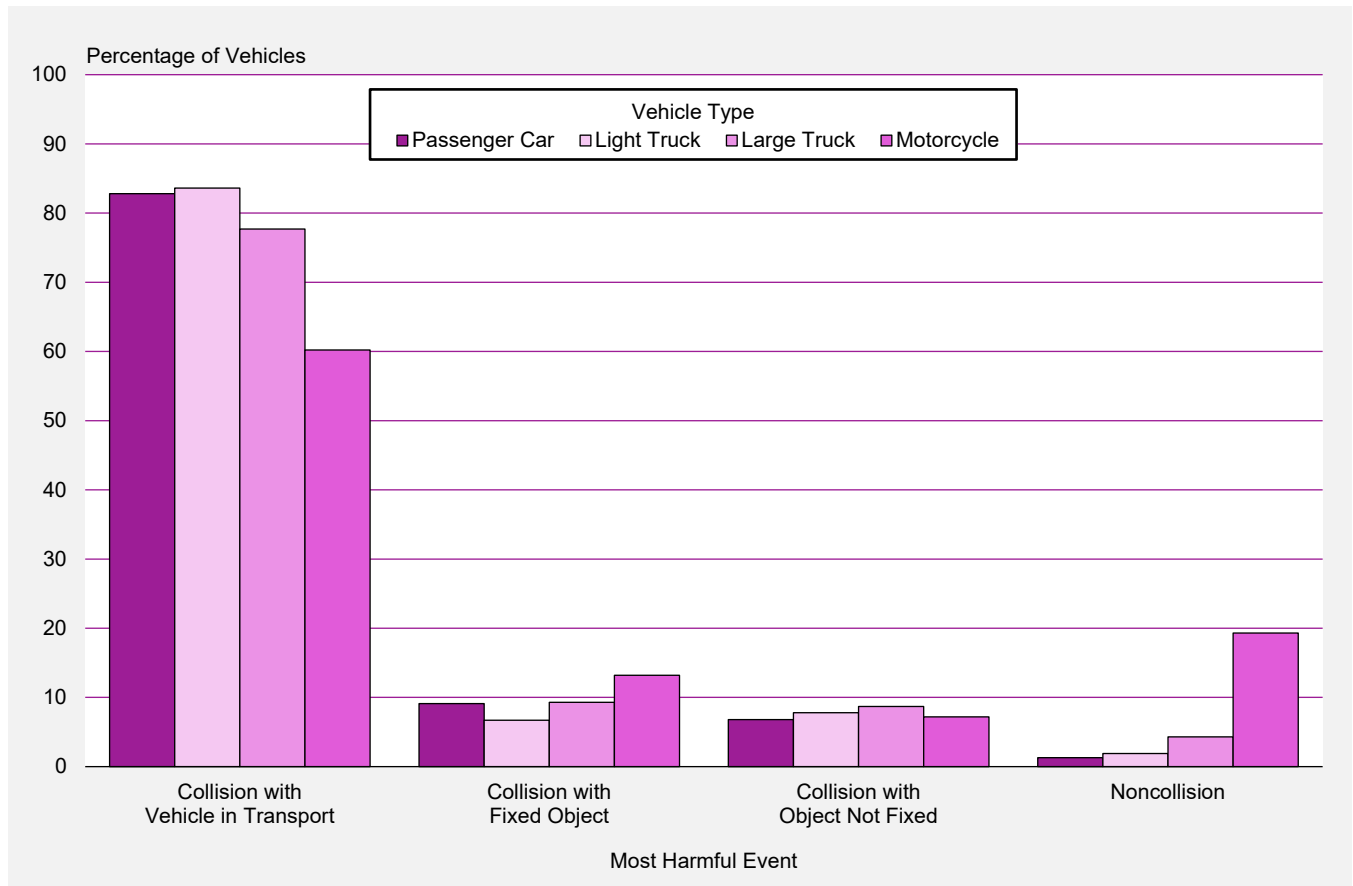
Table 41. Vehicles Involved in Fatal Crashes, by Roadway Function Class, Crash Type, and Hazardous Cargo

Roadway Function Class	Crash Type				Total	
	Single Vehicle		Multi-Vehicle		Total	
	Hazardous Cargo	Total	Hazardous Cargo	Total	Hazardous Cargo	Total
Rural Fatal Crashes						
Principal Arterial						
Interstate	4	973	18	2,038	22	3,011
Freeway/Expressway	0	149	1	288	1	437
Other	4	1,395	37	4,778	41	6,173
Minor Arterial	1	1,338	9	3,602	10	4,940
Major Collector	2	2,396	21	2,888	23	5,284
Minor Collector	1	701	0	493	1	1,194
Local Road or Street	2	1,714	0	793	2	2,507
Unknown	0	95	0	42	0	137
Total	14	8,761	86	14,922	100	23,683
Urban Fatal Crashes						
Principal Arterial						
Interstate	4	1,747	14	3,723	18	5,470
Freeway/Expressway	3	842	8	1,625	11	2,467
Other	2	3,998	19	8,976	21	12,974
Minor Arterial	0	3,196	3	5,786	3	8,982
Major Collector	0	1,605	3	2,018	3	3,623
Minor Collector	0	217	0	215	0	432
Local Road or Street	0	1,606	0	996	0	2,602
Unknown	0	26	0	24	0	50
Total	9	13,237	47	23,363	56	36,600
All Fatal Crashes*						
Principal Arterial						
Interstate	8	2,721	32	5,763	40	8,484
Freeway/Expressway	3	991	9	1,915	12	2,906
Other	6	5,395	56	13,754	62	19,149
Minor Arterial	1	4,534	12	9,388	13	13,922
Major Collector	2	4,001	24	4,906	26	8,907
Minor Collector	1	918	0	708	1	1,626
Local Road or Street	2	3,332	0	1,795	2	5,127
Unknown	0	286	0	94	0	380
Total	23	22,178	133	38,323	156	60,501

*Includes unknown rural or urban.

3. Vehicles

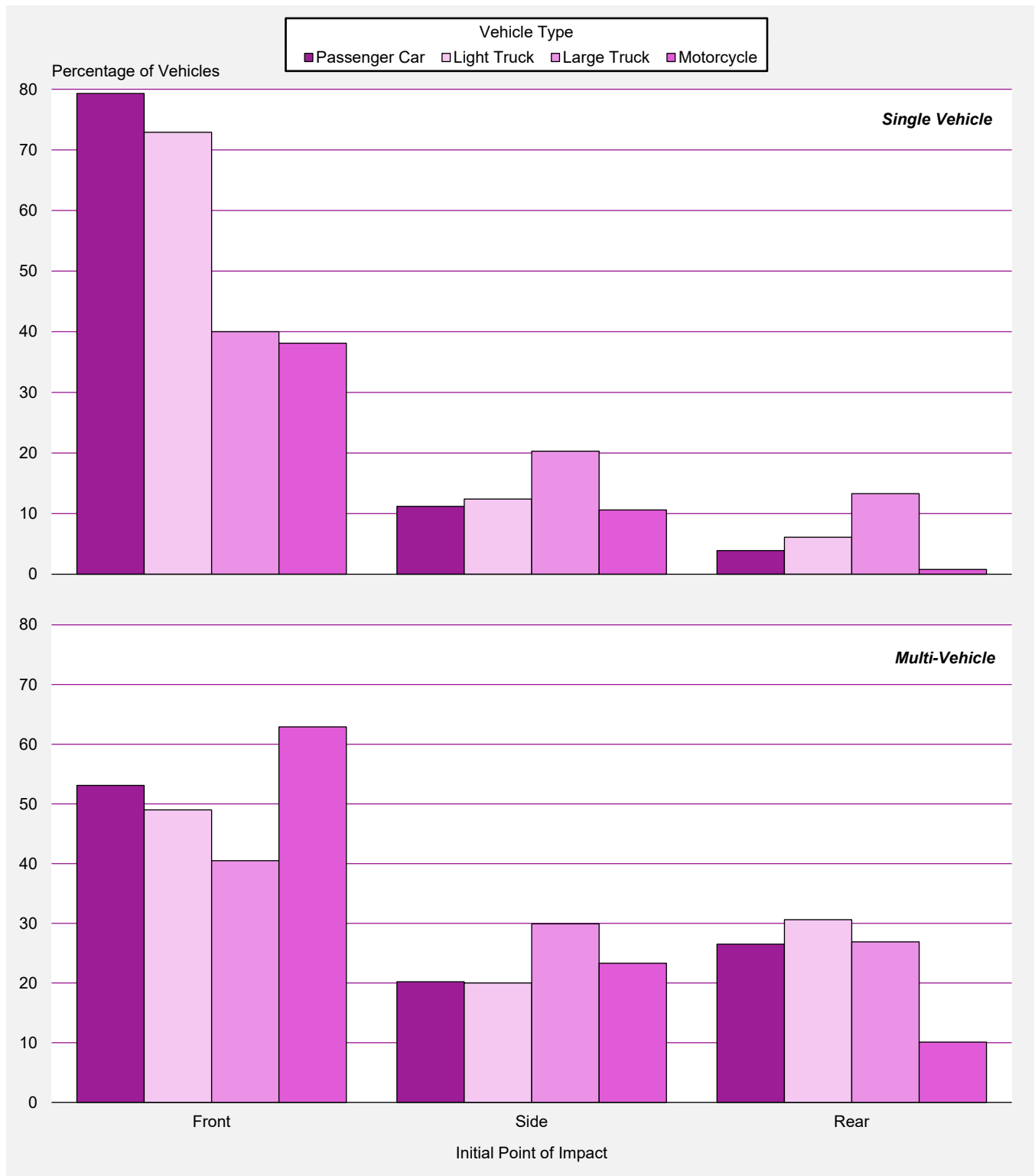
Figure 15. Percentage of Vehicles in Crashes, by Most Harmful Event and Vehicle Type



Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

3. Vehicles

Figure 16. Percentage of Vehicles in Crashes, by Initial Point of Impact, Crash Type, and Vehicle Type



Notes: Excludes other or unknown points of impact and noncollisions. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

3. Vehicles

Table 42. Passenger Cars Involved in Crashes, by Most Harmful Event and Crash Severity

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision With Motor Vehicle in-Transport by Initial Point of Impact:								
Front	6,759	33.7	565,271	46.8	1,194,492	42.8	1,766,522	44.0
Left Side	1,708	8.5	100,986	8.4	258,562	9.3	361,256	9.0
Right Side	1,323	6.6	86,756	7.2	221,521	7.9	309,601	7.7
Rear	1,228	6.1	254,542	21.1	630,782	22.6	886,552	22.1
Other/Unknown	194	1.0	487	0.0	306	0.0	987	0.0
<i>Subtotal</i>	<i>11,212</i>	<i>55.9</i>	<i>1,008,043</i>	<i>83.5</i>	<i>2,305,663</i>	<i>82.7</i>	<i>3,324,918</i>	<i>82.8</i>
Collision With Fixed Object								
	<i>3,261</i>	<i>16.3</i>	<i>104,913</i>	<i>8.7</i>	<i>257,887</i>	<i>9.2</i>	<i>366,061</i>	<i>9.1</i>
Collision With Object Not Fixed:								
Nonoccupant	3,148	15.7	36,173	3.0	2,112	0.1	41,433	1.0
Other	566	2.8	31,922	2.6	197,503	7.1	229,991	5.7
<i>Subtotal</i>	<i>3,714</i>	<i>18.5</i>	<i>68,095</i>	<i>5.6</i>	<i>199,615</i>	<i>7.2</i>	<i>271,424</i>	<i>6.8</i>
Noncollision	<i>1,853</i>	<i>9.2</i>	<i>26,075</i>	<i>2.2</i>	<i>25,478</i>	<i>0.9</i>	<i>53,406</i>	<i>1.3</i>
Total*	20,049	100.0	1,207,127	100.0	2,788,643	100.0	4,015,818	100.0

*Includes vehicles in fatal crashes where the most harmful event was unknown or there was a harmful event, but the details were not reported.

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 43. Passenger Cars Involved in Crashes, by Initial Point of Impact, Crash Severity, and Crash Type

Initial Point of Impact	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Single-Vehicle Crashes								
Front	5,264	70.2	148,521	80.9	360,063	78.8	513,848	79.3
Left Side	436	5.8	9,254	5.0	23,574	5.2	33,264	5.1
Right Side	475	6.3	11,839	6.4	27,145	5.9	39,458	6.1
Rear	84	1.1	3,922	2.1	21,389	4.7	25,395	3.9
Noncollision	445	5.9	8,160	4.4	15,522	3.4	24,126	3.7
Other/Unknown	798	10.6	1,930	1.1	9,224	2.0	11,952	1.8
Total	7,502	100.0	183,625	100.0	456,917	100.0	648,043	100.0
Multi-Vehicle Crashes								
Front	7,553	60.2	572,835	56.0	1,209,407	51.9	1,789,795	53.1
Left Side	1,832	14.6	103,025	10.1	260,715	11.2	365,572	10.9
Right Side	1,416	11.3	88,384	8.6	224,195	9.6	313,994	9.3
Rear	1,326	10.6	257,725	25.2	632,840	27.1	891,891	26.5
Noncollision	31	0.2	341	0.0	194	0.0	566	0.0
Other/Unknown	389	3.1	1,192	0.1	4,376	0.2	5,957	0.2
Total	12,547	100.0	1,023,502	100.0	2,331,726	100.0	3,367,775	100.0
All Crashes								
Front	12,817	63.9	721,356	59.8	1,569,470	56.3	2,303,643	57.4
Left Side	2,268	11.3	112,279	9.3	284,289	10.2	398,836	9.9
Right Side	1,891	9.4	100,222	8.3	251,339	9.0	353,453	8.8
Rear	1,410	7.0	261,647	21.7	654,229	23.5	917,286	22.8
Noncollision	476	2.4	8,501	0.7	15,716	0.6	24,693	0.6
Other/Unknown	1,187	5.9	3,121	0.3	13,600	0.5	17,909	0.4
Total	20,049	100.0	1,207,127	100.0	2,788,643	100.0	4,015,818	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 44. Light Trucks Involved in Crashes, by Most Harmful Event and Crash Severity

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision With Motor Vehicle in-Transport by Initial Point of Impact:								
Front	9,369	36.3	588,234	45.6	1,268,959	39.2	1,866,563	41.0
Left Side	1,675	6.5	102,554	8.0	286,125	8.8	390,354	8.6
Right Side	1,333	5.2	86,052	6.7	282,253	8.7	369,638	8.1
Rear	1,702	6.6	301,486	23.4	871,825	27.0	1,175,013	25.8
Other/Unknown	230	0.9	46	0.0	681	0.0	956	0.0
<i>Subtotal</i>	<i>14,309</i>	<i>55.4</i>	<i>1,078,371</i>	<i>83.6</i>	<i>2,709,843</i>	<i>83.8</i>	<i>3,802,524</i>	<i>83.6</i>
Collision With Fixed Object	<i>3,228</i>	<i>12.5</i>	<i>89,961</i>	<i>7.0</i>	<i>210,853</i>	<i>6.5</i>	<i>304,042</i>	<i>6.7</i>
Collision With Object Not Fixed:								
Nonoccupant	4,152	16.1	40,979	3.2	2,025	0.1	47,156	1.0
Other	690	2.7	35,720	2.8	271,425	8.4	307,836	6.8
<i>Subtotal</i>	<i>4,842</i>	<i>18.8</i>	<i>76,699</i>	<i>5.9</i>	<i>273,451</i>	<i>8.5</i>	<i>354,992</i>	<i>7.8</i>
Noncollision	<i>3,424</i>	<i>13.3</i>	<i>44,734</i>	<i>3.5</i>	<i>39,137</i>	<i>1.2</i>	<i>87,294</i>	<i>1.9</i>
Total*	25,807	100.0	1,289,765	100.0	3,233,284	100.0	4,548,856	100.0

*Includes vehicles in fatal crashes where the most harmful event was unknown or there was a harmful event, but the details were not reported.

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 45. Light Trucks Involved in Crashes, by Initial Point of Impact, Crash Severity, and Crash Type

Initial Point of Impact	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Single-Vehicle Crashes								
Front	6,781	70.0	143,595	75.2	351,727	72.1	502,103	72.9
Left Side	380	3.9	9,199	4.8	22,120	4.5	31,699	4.6
Right Side	411	4.2	11,626	6.1	41,300	8.5	53,337	7.7
Rear	89	0.9	4,094	2.1	37,919	7.8	42,102	6.1
Noncollision	1,210	12.5	18,964	9.9	22,710	4.7	42,884	6.2
Other/Unknown	815	8.4	3,593	1.9	11,861	2.4	16,270	2.4
Total	9,686	100.0	191,070	100.0	487,638	100.0	688,394	100.0
Multi-Vehicle Crashes								
Front	10,323	64.0	597,255	54.4	1,282,585	46.7	1,890,163	49.0
Left Side	1,870	11.6	105,637	9.6	289,485	10.5	396,991	10.3
Right Side	1,491	9.2	88,927	8.1	286,208	10.4	376,626	9.8
Rear	1,917	11.9	304,939	27.8	873,821	31.8	1,180,677	30.6
Noncollision	46	0.3	484	0.0	1,009	0.0	1,539	0.0
Other/Unknown	474	2.9	1,453	0.1	12,538	0.5	14,465	0.4
Total	16,121	100.0	1,098,695	100.0	2,745,646	100.0	3,860,462	100.0
All Crashes								
Front	17,104	66.3	740,850	57.4	1,634,313	50.5	2,392,267	52.6
Left Side	2,250	8.7	114,835	8.9	311,605	9.6	428,690	9.4
Right Side	1,902	7.4	100,553	7.8	327,508	10.1	429,963	9.5
Rear	2,006	7.8	309,033	24.0	911,740	28.2	1,222,779	26.9
Noncollision	1,256	4.9	19,447	1.5	23,719	0.7	44,423	1.0
Other/Unknown	1,289	5.0	5,046	0.4	24,399	0.8	30,734	0.7
Total	25,807	100.0	1,289,765	100.0	3,233,284	100.0	4,548,856	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 46. Large Trucks Involved in Crashes, by Most Harmful Event and Crash Severity

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision With Motor Vehicle in-Transport by Initial Point of Impact:								
Front	2,494	42.7	46,894	39.0	122,397	29.8	171,784	32.0
Left Side	470	8.1	14,197	11.8	52,327	12.8	66,995	12.5
Right Side	260	4.5	12,155	10.1	48,578	11.8	60,993	11.4
Rear	954	16.3	25,453	21.2	89,346	21.8	115,753	21.6
Other/Unknown	83	1.4	864	0.7	277	0.1	1,224	0.2
<i>Subtotal</i>	4,261	73.0	99,564	82.8	312,925	76.2	416,750	77.7
Collision With Fixed Object	282	4.8	6,357	5.3	43,395	10.6	50,034	9.3
Collision With Object Not Fixed:								
Nonoccupant	595	10.2	1,943	1.6	133	0.0	2,671	0.5
Other	149	2.6	3,012	2.5	40,601	9.9	43,761	8.2
<i>Subtotal</i>	744	12.7	4,955	4.1	40,734	9.9	46,432	8.7
Noncollision	549	9.4	9,314	7.7	13,343	3.3	23,207	4.3
Total*	5,837	100.0	120,190	100.0	410,397	100.0	536,424	100.0

*Includes vehicles in fatal crashes where the most harmful event was unknown or there was a harmful event, but the details were not reported.

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 47. Large Trucks Involved in Crashes, by Initial Point of Impact, Crash Severity, and Crash Type

Initial Point of Impact	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Single-Vehicle Crashes								
Front	663	59.3	8,348	45.2	32,569	38.5	41,580	40.0
Left Side	45	4.0	178	1.0	4,118	4.9	4,341	4.2
Right Side	84	7.5	2,024	11.0	14,670	17.4	16,777	16.1
Rear	27	2.4	545	3.0	13,223	15.6	13,794	13.3
Noncollision	191	17.1	6,581	35.7	10,014	11.9	16,786	16.1
Other/Unknown	108	9.7	783	4.2	9,900	11.7	10,790	10.4
Total	1,118	100.0	18,459	100.0	84,492	100.0	104,069	100.0
Multi-Vehicle Crashes								
Front	2,752	58.3	47,654	46.8	124,692	38.3	175,098	40.5
Left Side	510	10.8	14,373	14.1	52,471	16.1	67,353	15.6
Right Side	302	6.4	12,442	12.2	48,972	15.0	61,716	14.3
Rear	988	20.9	25,641	25.2	89,632	27.5	116,261	26.9
Noncollision	29	0.6	614	0.6	152	0.0	795	0.2
Other/Unknown	138	2.9	1,008	1.0	9,986	3.1	11,131	2.6
Total	4,719	100.0	101,731	100.0	325,904	100.0	432,354	100.0
All Crashes								
Front	3,415	58.5	56,002	46.6	157,261	38.3	216,678	40.4
Left Side	555	9.5	14,551	12.1	56,588	13.8	71,695	13.4
Right Side	386	6.6	14,465	12.0	63,642	15.5	78,493	14.6
Rear	1,015	17.4	26,186	21.8	102,854	25.1	130,055	24.2
Noncollision	220	3.8	7,195	6.0	10,166	2.5	17,581	3.3
Other/Unknown	246	4.2	1,791	1.5	19,885	4.8	21,922	4.1
Total	5,837	100.0	120,190	100.0	410,397	100.0	536,424	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 48. Large Trucks Involved in Crashes, by Truck Type, Rollover Occurrence, and Crash Severity

Truck Type	Rollover Occurrence				Total	
	Yes		No			
	Number	Percent	Number	Percent	Number	Percent
Fatal Crashes						
Single-Unit Truck	339	16.3	1,738	83.7	2,077	100.0
Combination Truck	410	10.9	3,350	89.1	3,760	100.0
Total	749	12.8	5,088	87.2	5,837	100.0
Injury Crashes						
Single-Unit Truck	4,100	7.1	53,889	92.9	57,989	100.0
Combination Truck	7,016	11.3	55,185	88.7	62,201	100.0
Total	11,116	9.2	109,074	90.8	120,190	100.0
Property-Damage-Only Crashes						
Single-Unit Truck	2,800	1.4	194,049	98.6	196,849	100.0
Combination Truck	6,366	3.0	207,182	97.0	213,548	100.0
Total	9,166	2.2	401,231	97.8	410,397	100.0
All Crashes						
Single-Unit Truck	7,239	2.8	249,677	97.2	256,915	100.0
Combination Truck	13,792	4.9	265,716	95.1	279,509	100.0
Total	21,031	3.9	515,393	96.1	536,424	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 49. Truck Tractors With Trailers Involved in Crashes, by Number of Trailers, Jackknife Occurrence, and Crash Severity

Number of Trailers	Jackknife Occurrence				Total	
	Yes		No			
	Number	Percent	Number	Percent	Number	Percent
Fatal Crashes						
One	132	4.2	3,017	95.8	3,149	100.0
Two or More	10	8.1	113	91.9	123	100.0
Unknown Number	0	0.0	4	100.0	4	100.0
Total	142	4.3	3,134	95.7	3,276	100.0
Injury Crashes						
One	781	1.6	48,731	98.4	49,512	100.0
Two or More	23	1.6	1,404	98.4	1,427	100.0
Unknown Number	0	0.0	133	100.0	133	100.0
Total	804	1.6	50,267	98.4	51,072	100.0
Property-Damage-Only Crashes						
One	3,543	2.2	160,028	97.8	163,571	100.0
Two or More	409	6.7	5,720	93.3	6,129	100.0
Unknown Number	0	0.0	0	0.0	0	100.0
Total	3,952	2.3	165,748	97.7	169,699	100.0
All Crashes						
One	4,456	2.1	211,776	97.9	216,232	100.0
Two or More	442	5.8	7,236	94.2	7,678	100.0
Unknown Number	0	0.0	137	100.0	137	100.0
Total	4,898	2.2	219,149	97.8	224,047	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 50. Motorcycles Involved in Crashes, by Most Harmful Event and Crash Severity

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision With Motor Vehicle in-Transport by Initial Point of Impact:								
Front	2,765	43.5	28,076	35.5	8,809	51.0	39,651	38.6
Left Side	240	3.8	5,996	7.6	1,810	10.5	8,046	7.8
Right Side	165	2.6	4,795	6.1	1,736	10.0	6,696	6.5
Rear	274	4.3	4,640	5.9	1,482	8.6	6,396	6.2
Other/Unknown	243	3.8	729	0.9	117	0.7	1,090	1.1
<i>Subtotal</i>	3,687	58.0	44,237	55.9	13,954	80.7	61,878	60.2
Collision With Fixed Object	1,548	24.3	10,855	13.7	1,197	6.9	13,600	13.2
Collision With Object Not Fixed:								
Nonoccupant	60	0.9	1,485	1.9	188	1.1	1,733	1.7
Other	273	4.3	4,162	5.3	1,183	6.8	5,618	5.5
<i>Subtotal</i>	333	5.2	5,647	7.1	1,371	7.9	7,351	7.2
Noncollision	766	12.0	18,335	23.2	767	4.4	19,867	19.3
Total*	6,359	100.0	79,073	100.0	17,289	100.0	102,721	100.0

*Includes vehicles in fatal crashes where the most harmful event was unknown or there was a harmful event, but the details were not reported.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

3. Vehicles

Table 51. Motorcycles Involved in Crashes, by Initial Point of Impact, Crash Severity, and Crash Type

Initial Point of Impact	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Single-Vehicle Crashes								
Front	1,070	45.0	11,257	33.5	2,573	81.8	14,900	38.1
Left Side	95	4.0	1,645	4.9	188	6.0	1,927	4.9
Right Side	135	5.7	2,093	6.2	0	0.0	2,228	5.7
Rear	11	0.5	285	0.8	0	0.0	296	0.8
Noncollision	710	29.8	18,211	54.3	385	12.2	19,305	49.4
Other/Unknown	358	15.0	71	0.2	0	0.0	429	1.1
Total	2,379	100.0	33,560	100.0	3,146	100.0	39,085	100.0
Multi-Vehicle Crashes								
Front	2,844	71.5	28,369	62.3	8,809	62.3	40,022	62.9
Left Side	260	6.5	6,046	13.3	1,810	12.8	8,116	12.8
Right Side	177	4.4	4,818	10.6	1,736	12.3	6,730	10.6
Rear	279	7.0	4,640	10.2	1,482	10.5	6,401	10.1
Noncollision	291	7.3	1,609	3.5	306	2.2	2,206	3.5
Other/Unknown	129	3.2	32	0.1	0	0.0	161	0.3
Total	3,980	100.0	45,513	100.0	14,143	100.0	63,636	100.0
All Crashes								
Front	3,914	61.6	39,625	50.1	11,383	65.8	54,922	53.5
Left Side	355	5.6	7,690	9.7	1,998	11.6	10,043	9.8
Right Side	312	4.9	6,911	8.7	1,736	10.0	8,958	8.7
Rear	290	4.6	4,925	6.2	1,482	8.6	6,697	6.5
Noncollision	1,001	15.7	19,820	25.1	691	4.0	21,512	20.9
Other/Unknown	487	7.7	102	0.1	0	0.0	589	0.6
Total	6,359	100.0	79,073	100.0	17,289	100.0	102,721	100.0

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

3. Vehicles

Table 52. Buses Involved in Crashes, by Most Harmful Event and Crash Severity

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision With Motor Vehicle in-Transport by Initial Point of Impact:								
Front	74	34.7	4,056	39.0	12,030	28.2	16,160	30.4
Left Side	17	8.0	468	4.5	5,253	12.3	5,738	10.8
Right Side	12	5.6	959	9.2	4,184	9.8	5,155	9.7
Rear	42	19.7	3,275	31.5	11,804	27.7	15,121	28.4
Other/Unknown	3	1.4	0	0.0	0	0.0	3	0.0
<i>Subtotal</i>	148	69.5	8,758	84.2	33,272	78.1	42,178	79.2
Collision With Fixed Object	7	3.3	129	1.2	2,434	5.7	2,570	4.8
Collision With Object Not Fixed:								
Nonoccupant	49	23.0	1,231	11.8	0	0.0	1,280	2.4
Other	4	1.9	135	1.3	6,774	15.9	6,913	13.0
<i>Subtotal</i>	53	24.9	1,366	13.1	6,774	15.9	8,193	15.4
Noncollision	5	2.3	145	1.4	139	0.3	289	0.5
Total	213	100.0	10,398	100.0	42,619	100.0	53,230	100.0

Note: Totals may not equal sum of components due to independent rounding.

3. Vehicles

Table 53. Buses Involved in Crashes, by Initial Point of Impact, Crash Severity, and Crash Type

Initial Point of Impact	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Single-Vehicle Crashes								
Front	35	66.0	896	54.6	1,405	15.2	2,336	21.4
Left Side	1	1.9	73	4.4	706	7.7	780	7.2
Right Side	4	7.5	409	25.0	2,827	30.7	3,240	29.7
Rear	2	3.8	117	7.1	4,142	44.9	4,261	39.0
Noncollision	1	1.9	145	8.8	139	1.5	285	2.6
Other/Unknown	10	18.9	0	0.0	0	0.0	10	0.1
Total	53	100.0	1,640	100.0	9,219	100.0	10,912	100.0
Multi-Vehicle Crashes								
Front	77	48.1	4,056	46.3	12,030	36.0	16,163	38.2
Left Side	19	11.9	468	5.3	5,253	15.7	5,740	13.6
Right Side	13	8.1	959	11.0	4,184	12.5	5,156	12.2
Rear	44	27.5	3,275	37.4	11,804	35.3	15,123	35.7
Noncollision	2	1.3	0	0.0	0	0.0	2	0.0
Other/Unknown	5	3.1	0	0.0	128	0.4	133	0.3
Total	160	100.0	8,758	100.0	33,400	100.0	42,318	100.0
All Crashes								
Front	112	52.6	4,952	47.6	13,435	31.5	18,499	34.8
Left Side	20	9.4	541	5.2	5,960	14.0	6,521	12.2
Right Side	17	8.0	1,369	13.2	7,011	16.4	8,396	15.8
Rear	46	21.6	3,392	32.6	15,946	37.4	19,384	36.4
Noncollision	3	1.4	145	1.4	139	0.3	287	0.5
Other/Unknown	15	7.0	0	0.0	128	0.3	143	0.3
Total	213	100.0	10,398	100.0%	42,619	100.0	53,230	100.0

Note: Totals may not equal sum of components due to independent rounding.

4



People

4. People

This chapter presents statistics about the drivers, passengers, pedestrians, and pedalcyclists involved in police-reported motor vehicle traffic crashes in 2021. The tables and figures are presented in nine groups: all killed and injured people, crash-involved drivers, occupants (drivers and passengers), alcohol, restraints, motorcycle-related, school-bus-related, pedestrians, and pedalcyclists. Below are some of the statistics you will find in this section.

- A total of 42,514 people lost their lives in motor vehicle traffic crashes in 2022. Another 2.4 million people were injured.
- Most people killed and injured in traffic crashes were drivers (68%), followed by passengers (23%), motorcyclists (4%), pedestrians (3%), and pedalcyclists (2%).
- Per 100,000 population, people 21 to 24 years old had the highest fatality rate and the highest injury rate. Children 5 to 9 years old had the lowest fatality rate, and children under 5 years old had the lowest injury rate per 100,000 population.
- The fatality rate per 100,000 population was lower for females than for males. The injury rate based on population was nearly the same for females and males.
- Of the people who were killed in 2022 in traffic crashes, 32 percent died in alcohol-impaired-driving crashes.

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Table 54. People Killed and Injured, by Person Type and Injury Severity

Person Type	People Killed	People Injured by Injury Severity				Total Killed and Injured
		Incapacitating	Nonincapacitating	Other	Total Injured	
Vehicle Occupants						
Drivers	20,908	104,128	533,120	983,667	1,620,915	1,641,823
Passengers	6,393	34,630	163,395	349,514	547,538	553,931
Unknown	43	55	348	267	670	713
<i>Subtotal</i>	<i>27,344</i>	<i>138,812</i>	<i>696,863</i>	<i>1,333,448</i>	<i>2,169,123</i>	<i>2,196,467</i>
Motorcyclists	6,218	26,971	36,923	18,793	82,687	88,905
Nonoccupants						
Pedestrians	7,522	15,082	27,545	24,709	67,336	74,858
Pedalcyclists	1,105	5,875	23,411	16,909	46,195	47,300
Other/Unknown	325	1,143	7,721	8,566	17,430	17,755
<i>Subtotal</i>	<i>8,952</i>	<i>22,100</i>	<i>58,676</i>	<i>50,184</i>	<i>130,961</i>	<i>139,913</i>
Total	42,514	187,884	792,462	1,402,425	2,382,771	2,425,285

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, people on motorized bicycles are classified as pedalcyclists instead of motorcyclists. For more details, see page 6 of this report.

Table 55. People Killed and Injured, by Age Group and Injury Severity

Age Group	People Killed	People Injured by Injury Severity				Total Killed and Injured
		Incapacitating	Nonincapacitating	Other	Total Injured	
<5	355	1,705	10,715	27,274	39,693	40,048
5-9	312	2,491	16,762	33,682	52,935	53,247
10-14	462	4,608	20,582	38,684	63,874	64,336
15-20	3,434	20,010	103,255	161,317	284,582	288,016
21-24	3,319	18,082	76,842	133,612	228,536	231,855
25-34	8,104	38,489	160,985	282,956	482,430	490,534
35-44	6,702	29,884	125,630	226,129	381,642	388,344
45-54	5,688	25,429	99,557	181,029	306,015	311,703
55-64	5,967	23,787	86,644	163,794	274,225	280,192
65-74	4,291	14,878	57,745	100,011	172,635	176,926
>74	3,680	8,430	33,683	53,873	95,987	99,667
Total*	42,514	187,884	792,462	1,402,425	2,382,771	2,425,285

*Includes people killed and injured of unknown age.

Note: Totals may not equal sum of components due to independent rounding.

Table 56. People Killed and Injured, by Sex and Injury Severity

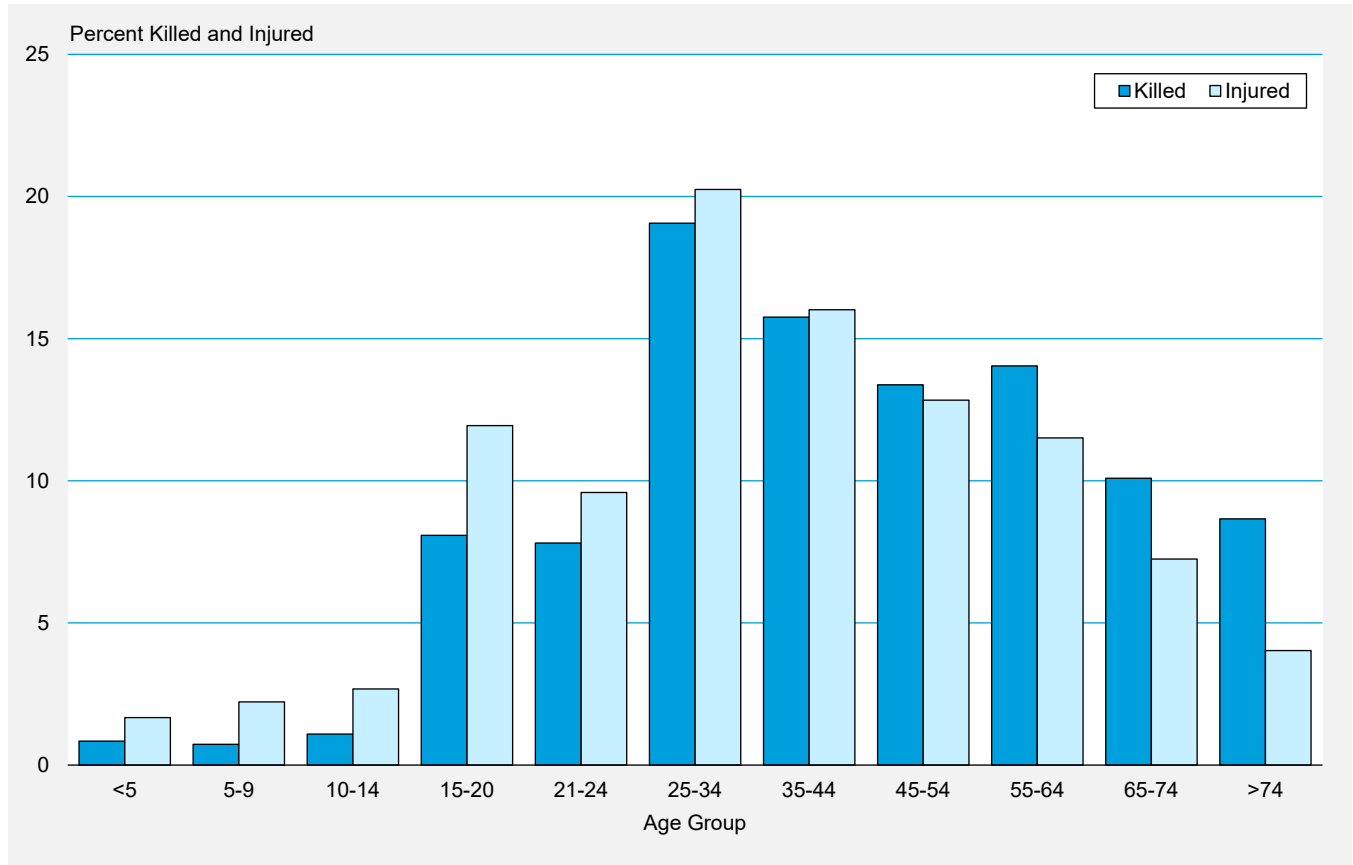
Sex	People Killed	People Injured by Injury Severity				Total Killed and Injured
		Incapacitating	Nonincapacitating	Other	Total Injured	
Male	30,669	116,851	421,606	650,538	1,188,995	1,219,664
Female	11,737	71,001	370,781	751,844	1,193,627	1,205,364
Total*	42,514	187,884	792,462	1,402,425	2,382,771	2,425,285

*Includes people killed and injured of unknown sex.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Figure 17. Percentage of People Killed and Injured, by Age Group



4. People

Table 57. People Killed and Injured and Fatality and Injury Rates per 100,000 Population, by Age Group and Sex

Age Group	Male			Female			Total*		
	Killed	Population	Rate	Killed	Population	Rate	Killed	Population	Rate
<5	188	9,475,095	1.98	167	9,063,258	1.84	355	18,538,353	1.91
5-9	174	10,231,946	1.70	138	9,777,249	1.41	312	20,009,195	1.56
10-14	264	10,701,853	2.47	197	10,187,986	1.93	462	20,889,839	2.21
15-20	2,408	13,340,726	18.05	1,020	12,733,072	8.01	3,434	26,073,798	13.17
21-24	2,448	9,343,305	26.20	867	8,924,468	9.71	3,319	18,267,773	18.17
25-34	5,999	23,189,562	25.87	2,094	22,311,738	9.39	8,104	45,501,300	17.81
35-44	5,048	22,120,189	22.82	1,650	21,575,176	7.65	6,702	43,695,365	15.34
45-54	4,233	20,279,630	20.87	1,451	20,152,015	7.20	5,688	40,431,645	14.07
55-64	4,463	20,671,903	21.59	1,495	21,413,534	6.98	5,967	42,085,437	14.18
65-74	3,055	15,910,672	19.20	1,232	17,877,767	6.89	4,291	33,788,439	12.70
>74	2,289	10,018,672	22.85	1,380	13,987,741	9.87	3,680	24,006,413	15.33
Unknown	100	**	**	46	**	**	200	**	**
Total	30,669	165,283,553	18.56	11,737	168,004,004	6.99	42,514	333,287,557	12.76

Age Group	Male			Female			Total*		
	Injured	Population	Rate	Injured	Population	Rate	Injured	Population	Rate
<5	19,129	9,475,095	202	20,559	9,063,258	227	39,693	18,538,353	214
5-9	25,604	10,231,946	250	27,322	9,777,249	279	52,935	20,009,195	265
10-14	31,502	10,701,853	294	32,330	10,187,986	317	63,874	20,889,839	306
15-20	139,030	13,340,726	1,042	145,541	12,733,072	1,143	284,582	26,073,798	1,091
21-24	117,912	9,343,305	1,262	110,620	8,924,468	1,240	228,536	18,267,773	1,251
25-34	250,779	23,189,562	1,081	231,644	22,311,738	1,038	482,430	45,501,300	1,060
35-44	192,118	22,120,189	869	189,515	21,575,176	878	381,642	43,695,365	873
45-54	146,500	20,279,630	722	159,514	20,152,015	792	306,015	40,431,645	757
55-64	134,882	20,671,903	652	139,339	21,413,534	651	274,225	42,085,437	652
65-74	87,141	15,910,672	548	85,488	17,877,767	478	172,635	33,788,439	511
>74	44,299	10,018,672	442	51,685	13,987,741	370	95,987	24,006,413	400
Total***	1,188,995	165,283,553	719	1,193,627	168,004,004	710	2,382,771	333,287,557	715

Source: Population—Census Bureau

*Includes people killed and injured of unknown sex.

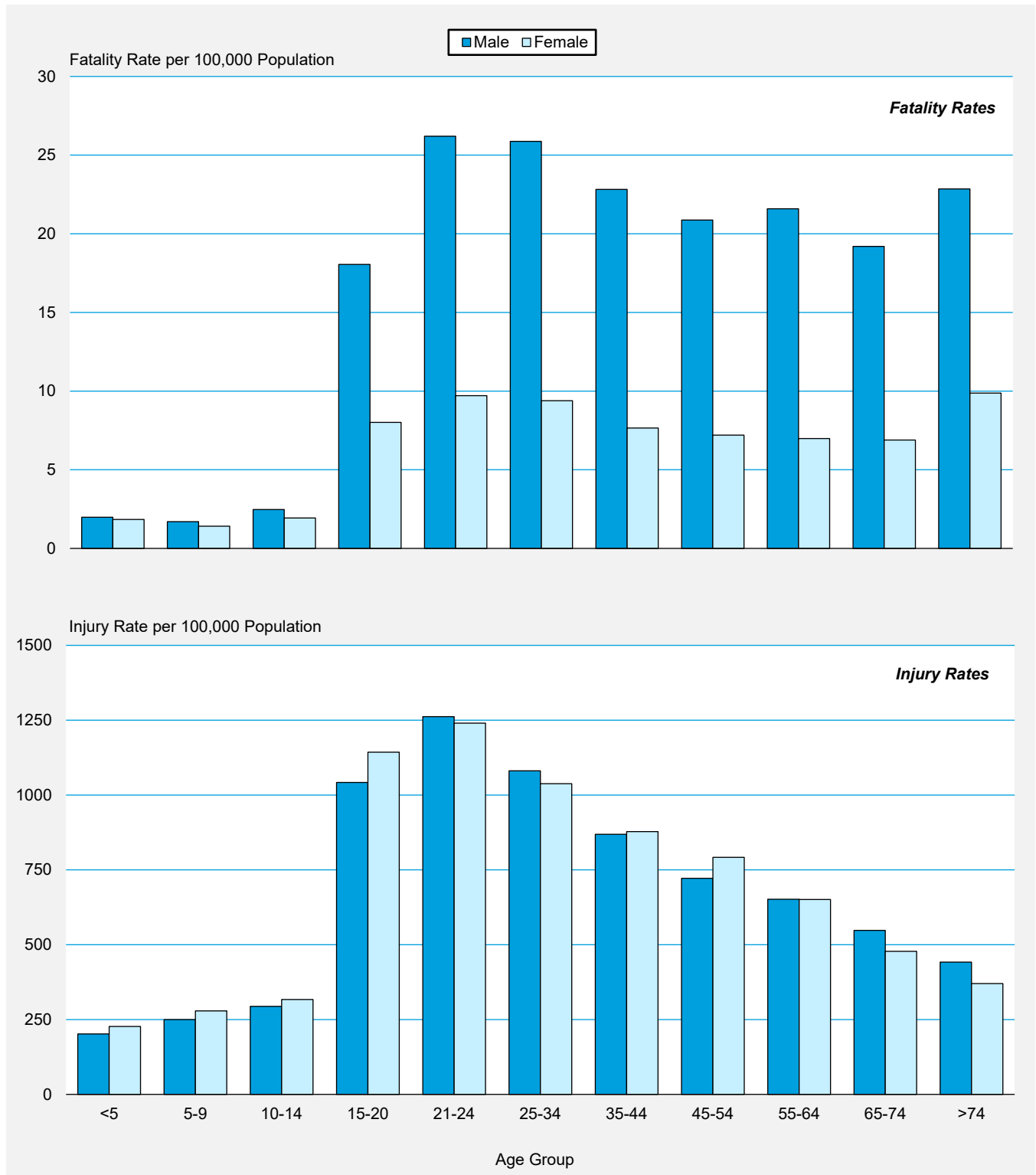
**Not applicable.

***Includes people injured in fatal crashes from FARS with unknown age.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Figure 18. Fatality and Injury Rates per 100,000 Population, by Age Group and Sex



4. People

Table 58. People Killed and Injured in Crashes, by Weather Condition and Light Condition

Weather Condition	Light Condition					Total*
	Daylight	Dark, but Lighted	Dark	Dawn or Dusk	Other	
People Killed						
Normal	17,108	8,118	10,350	1,496	12	37,164
Rain	1,008	624	846	109	5	2,601
Snow/Sleet	230	102	174	27	0	533
Other	151	86	280	46	1	575
Unknown	678	222	459	65	2	1,641
Total	19,175	9,152	12,109	1,743	20	42,514
People Injured						
Normal	1,484,746	372,726	209,914	78,001	91	2,145,483
Rain	111,659	37,202	24,721	8,963	145	182,695
Snow/Sleet	23,902	8,470	9,522	1,436	23	43,353
Other	5,596	1,082	3,023	755	0	10,458
Total**	1,626,349	419,583	247,379	89,173	259	2,382,771

*Includes people killed and injured in crashes with unknown light conditions.

**Includes people injured in fatal crashes from FARS with unknown weather condition.

Note: Totals may not equal sum of components due to independent rounding.

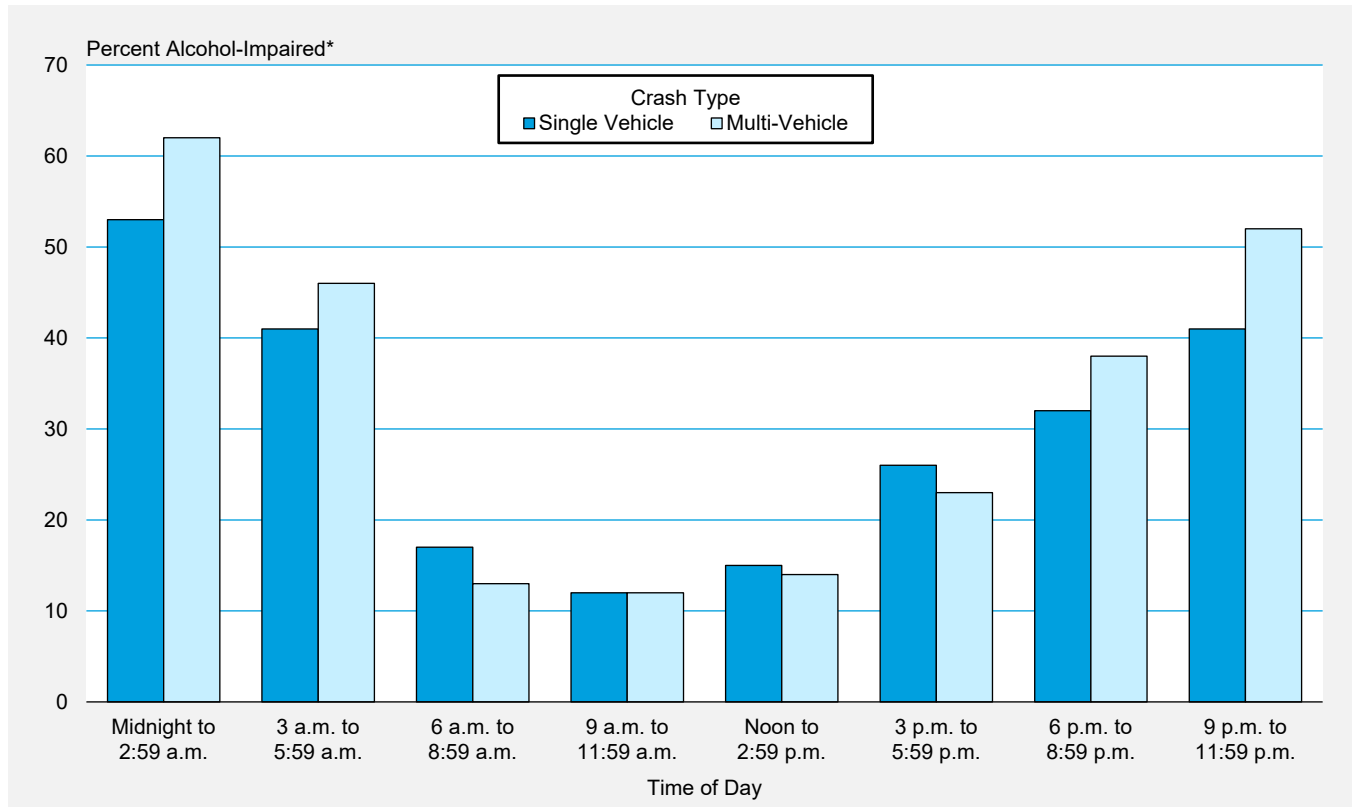
Table 59. People Killed in Crashes and Percentage Alcohol-Impaired-Driving Fatalities, by Time of Day and Crash Type

Time of Day	Crash Type						Total		
	Single Vehicle			Multi-Vehicle			Alcohol-Impaired Driving*		
	Number	Number	Percent	Number	Number	Percent	Number	Number	Percent
Midnight to 2:59 a.m.	3,555	1,877	53	1,706	1,063	62	5,261	2,941	56
3 a.m. to 5:59 a.m.	2,285	928	41	1,342	614	46	3,627	1,541	42
6 a.m. to 8:59 a.m.	2,032	353	17	2,027	265	13	4,059	618	15
9 a.m. to 11:59 a.m.	1,697	212	12	2,111	248	12	3,808	460	12
Noon to 2:59 p.m.	2,158	320	15	2,931	406	14	5,089	726	14
3 p.m. to 5:59 p.m.	2,807	721	26	3,530	816	23	6,337	1,538	24
6 p.m. to 8:59 p.m.	4,135	1,308	32	3,194	1,219	38	7,329	2,527	34
9 p.m. to 11:59 p.m.	4,214	1,738	41	2,464	1,293	52	6,678	3,030	45
Unknown	287	128	45	39	15	37	326	143	44
Total	23,170	7,586	33	19,344	5,938	31	42,514	13,524	32

*Highest BAC among drivers involved in the crash was .08 g/dL or greater. NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

4. People

Figure 19. Percentage of People Killed in Alcohol-Impaired-Driving Crashes, by Time of Day and Crash Type



4. People

Table 60. People Killed in Work Zones, by Functional System and Person Type

Functional System	Person Type					Total
	Drivers	Passengers	Pedestrians	Pedalcyclists	Other Nonoccupants	
Principal Arterial						
Interstate	235	73	40	0	3	351
Freeway/Expressway	43	16	16	0	1	76
Other	152	37	35	3	0	227
Minor Arterial						
Collector	90	19	26	4	0	139
Local Road or Street	45	7	11	1	0	64
Unknown	19	6	8	1	0	34
Unknown	0	0	0	0	0	0
Total	584	158	136	9	4	891

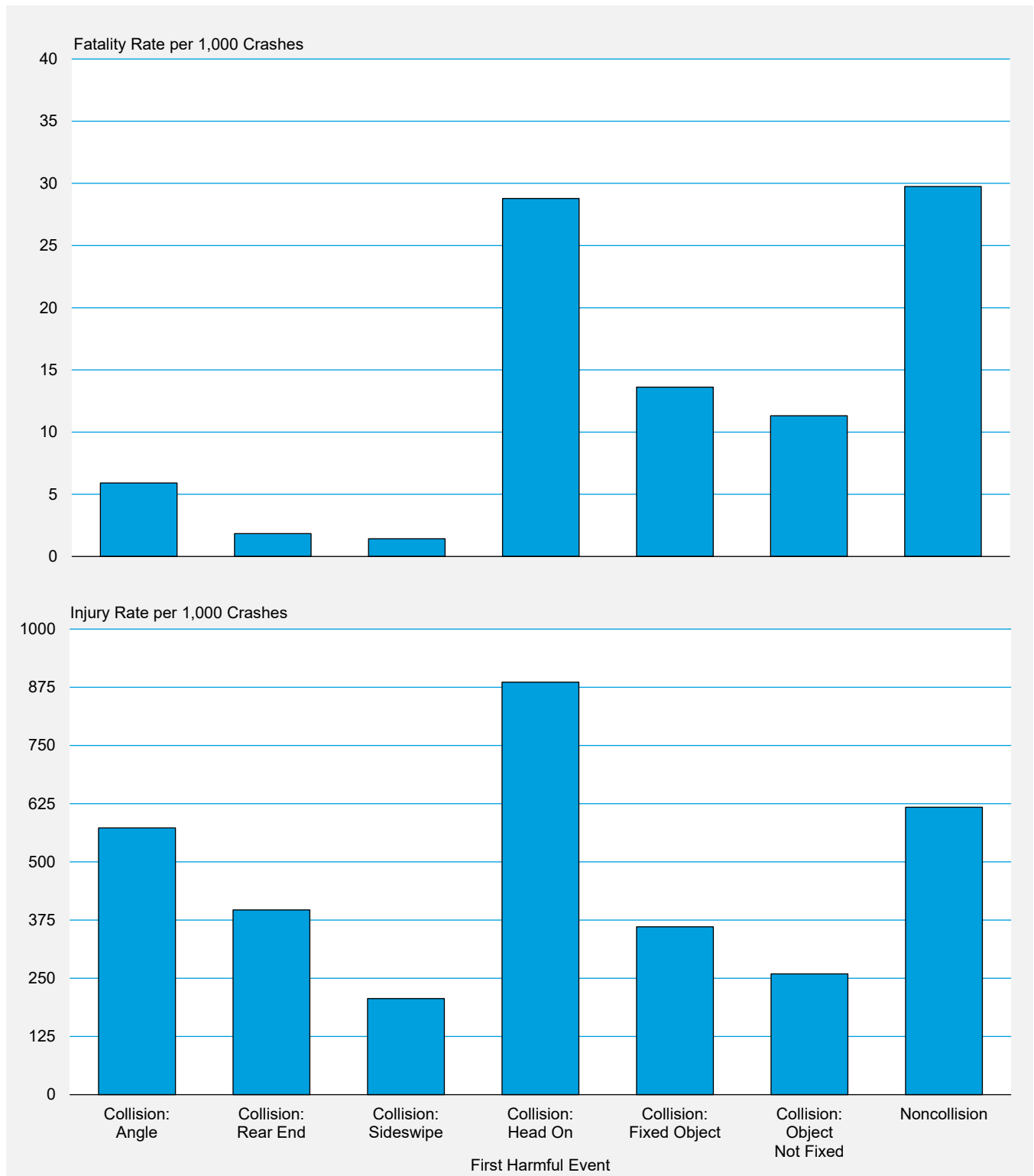
Table 61. People Killed in Crashes Involving Emergency Vehicles, by Person Type, Crash Type, and Vehicle Type

Person Type	Crash Type				Total	
	Single Vehicle		Multi-Vehicle			
	Total	In Emergency Use*	Total	In Emergency Use*	Total	In Emergency Use*
Ambulance						
Ambulance Drivers	1	0	4	3	5	3
Ambulance Passengers	6	1	5	2	11	3
Occupants of Other Vehicle	0	0	19	6	19	6
Pedestrians	3	2	1	1	4	3
Pedalcyclists	1	0	0	0	1	0
Other Nonoccupants	0	0	0	0	0	0
Total	11	3	29	12	40	15
Fire Truck						
Fire Truck Drivers	1	1	4	3	5	4
Fire Truck Passengers	0	0	2	2	2	2
Occupants of Other Vehicle	0	0	23	18	23	18
Pedestrians	3	1	0	0	3	1
Pedalcyclists	1	0	0	0	1	0
Other Nonoccupants	0	0	0	0	0	0
Total	5	2	29	23	34	25
Police Vehicle						
Police Vehicle Drivers	3	1	24	9	27	10
Police Vehicle Passengers	2	0	1	1	3	1
Occupants of Other Vehicle	0	0	67	31	67	31
Pedestrians	30	12	12	8	42	20
Pedalcyclists	3	1	0	0	3	1
Other Nonoccupants	3	3	0	0	3	3
Total	41	17	104	49	145	66

*Refers to a vehicle traveling with physical emergency signals in use (red lights blinking, sirens sounding, etc.).

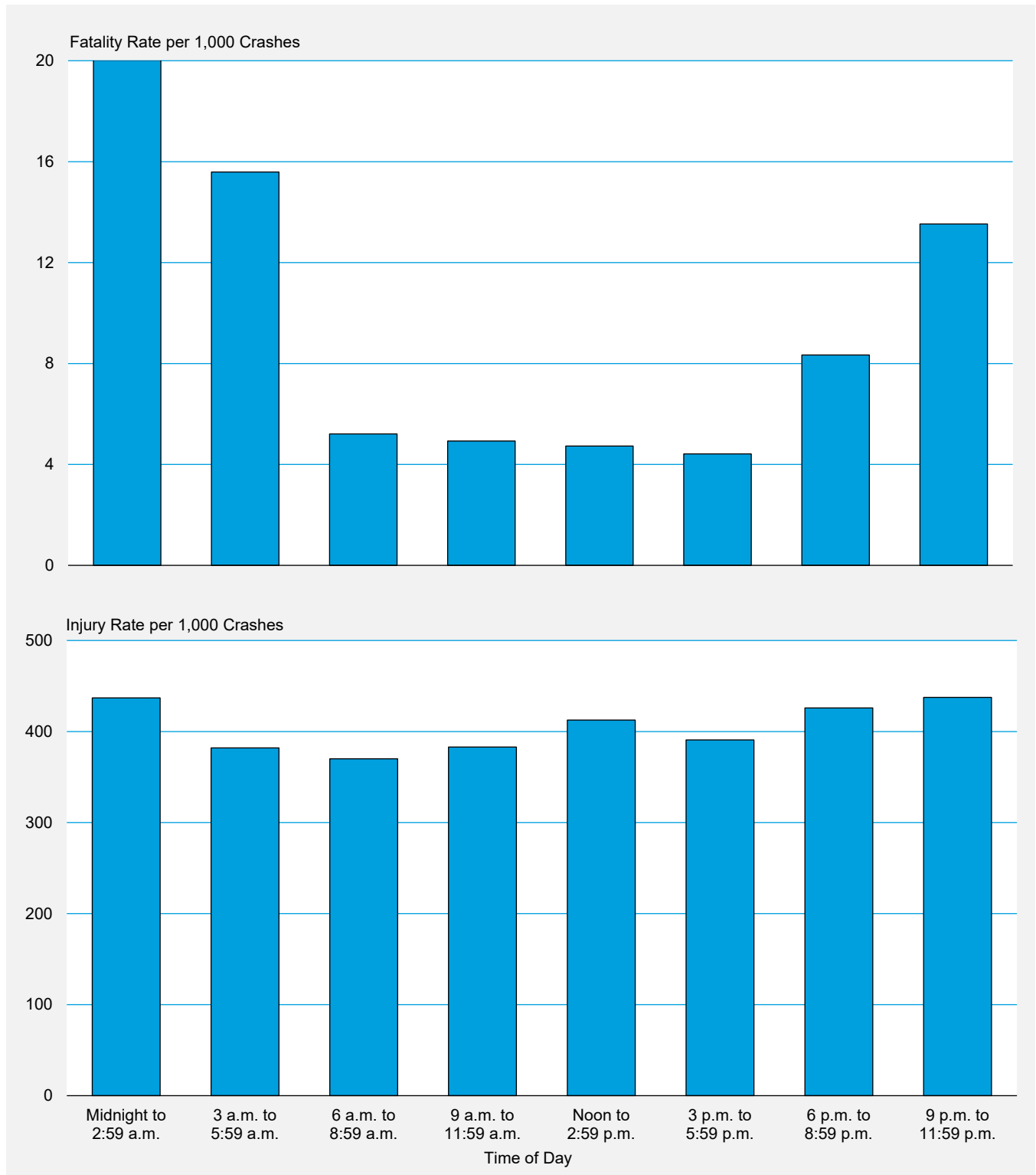
4. People

Figure 20. Fatality and Injury Rates per 1,000 Crashes, by First Harmful Event and Manner of Collision



4. People

Figure 21. Fatality and Injury Rates per 1,000 Crashes, by Time of Day



4. People

Table 62. Driver Involvement Rates per 100,000 Licensed Drivers, by Age Group, Sex, and Crash Severity

Age Group	Sex				Total*	
	Male		Female			
	Drivers	Involvement Rate	Drivers	Involvement Rate	Drivers	Involvement Rate
Drivers in Fatal Crashes						
<15	66	**	21	**	87	**
15-20	3,545	58.73	1,306	22.74	4,856	41.22
21-24	3,906	53.41	1,367	19.60	5,279	36.95
25-34	9,369	45.71	3,222	15.86	12,611	30.90
35-44	7,834	39.31	2,498	12.38	10,344	25.79
45-54	6,574	35.51	2,042	10.83	8,619	23.07
55-64	6,029	31.32	1,866	9.34	7,899	20.14
65-74	3,745	24.67	1,301	7.94	5,053	16.01
>74	2,376	25.25	1,063	10.07	3,445	17.26
Unknown	138	**	33	**	1,855	**
Total	43,582	37.53	14,719	12.37	60,048	25.54
Drivers in Injury Crashes						
<15	2,409	**	1,080	**	3,489	**
15-20	188,506	3,123	150,638	2,623	339,144	2,879
21-24	177,489	2,427	136,744	1,960	314,233	2,199
25-34	394,628	1,925	288,853	1,421	683,481	1,674
35-44	321,192	1,612	232,985	1,155	554,178	1,382
45-54	244,270	1,320	191,377	1,015	435,647	1,166
55-64	223,390	1,161	149,011	746	372,401	950
65-74	134,544	886	93,331	570	227,876	722
>74	63,401	674	52,152	494	115,552	579
Total	1,749,828	1,507	1,296,172	1,090	3,046,000	1,296
Drivers in Property-Damage-Only Crashes						
<15	3,828	**	3,433	**	7,260	**
15-20	510,143	8,451	413,227	7,195	923,370	7,839
21-24	449,442	6,146	331,619	4,754	781,061	5,466
25-34	938,837	4,581	676,249	3,328	1,615,086	3,957
35-44	777,737	3,903	557,764	2,765	1,335,501	3,330
45-54	623,056	3,366	423,420	2,247	1,046,476	2,801
55-64	556,031	2,889	345,384	1,730	901,665	2,299
65-74	310,505	2,046	203,639	1,243	514,143	1,629
>74	151,975	1,615	120,877	1,145	272,852	1,367
Total	4,321,554	3,722	3,075,610	2,585	7,397,414	3,147
Drivers in All Crashes						
<15	6,303	**	4,533	**	10,836	**
15-20	702,193	11,633	565,171	9,841	1,267,369	10,759
21-24	630,837	8,627	469,730	6,733	1,100,573	7,702
25-34	1,342,834	6,552	968,324	4,765	2,311,178	5,662
35-44	1,106,764	5,554	793,247	3,932	1,900,023	4,738
45-54	873,900	4,721	616,839	3,273	1,490,742	3,990
55-64	785,450	4,081	496,261	2,485	1,281,965	3,269
65-74	448,794	2,957	298,271	1,821	747,072	2,367
>74	217,752	2,314	174,091	1,649	391,849	1,963
Unknown	138	**	33	**	1,855	**
Total	6,114,964	5,266	4,386,501	3,687	10,503,462	4,468

Source: Licensed Drivers—FHWA

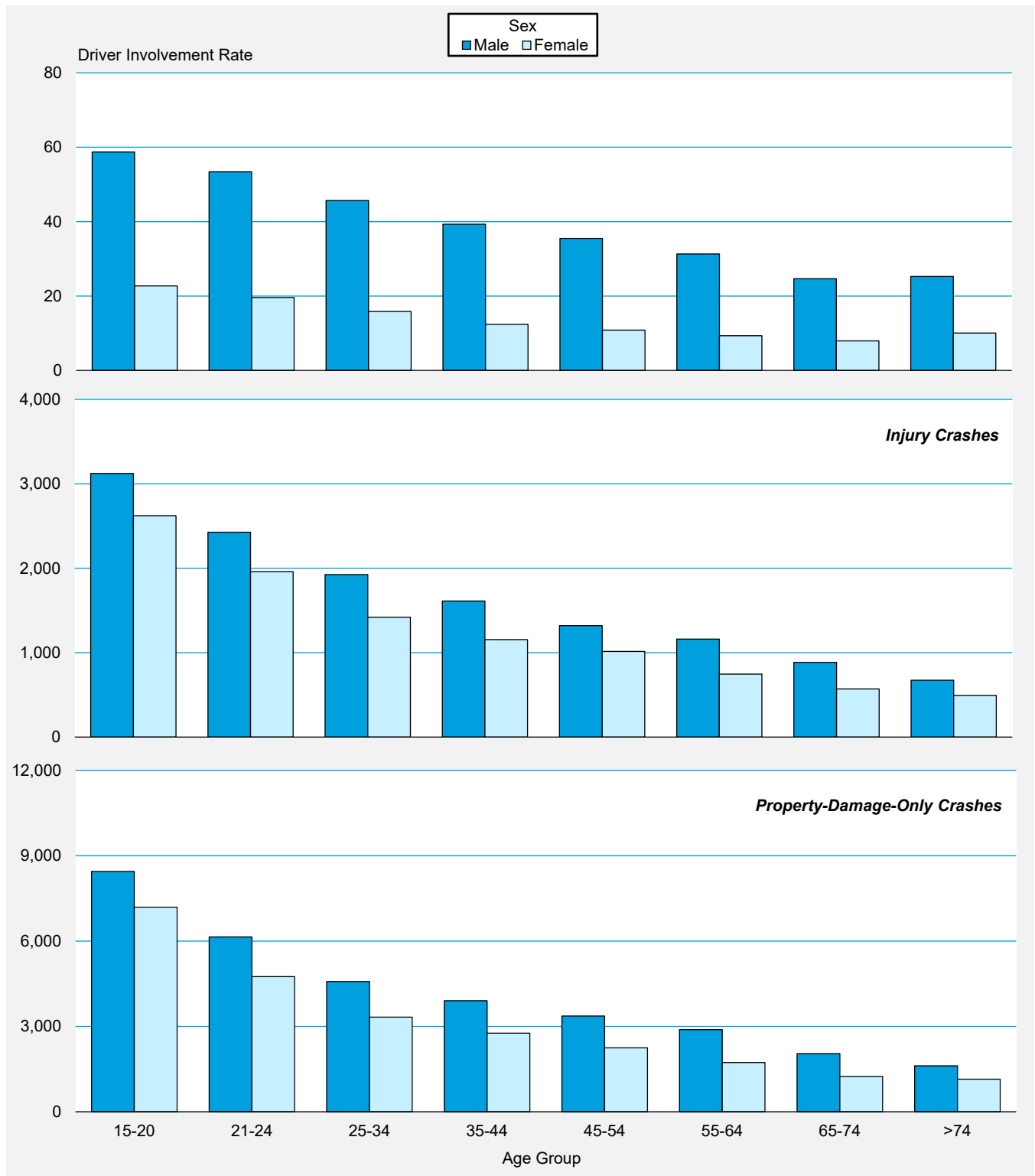
*Includes drivers in fatal crashes of unknown sex.

**Not applicable.

Notes: Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts. Totals may not equal sum of components due to independent rounding. Licensed drivers age 15 to 20 may include drivers under 15, because individual age data are not available for those under 16.

4. People

Figure 22. Driver Involvement Rates per 100,000 Licensed Drivers, by Age Group, Sex, and Crash Severity



Notes: Licensed drivers age 15 to 20 may include drivers under 15, because individual age data are not available for those under 16.

4. People

Table 63. Drivers Involved in Fatal Crashes, by Previous Driving Record and License Compliance

Previous Convictions	Valid License (47,548)		Invalid License (9,958)		Total (57,506)	
	Number	Percent	Number	Percent	Number	Percent
Previous Recorded Crashes	7,852	16.5	1,565	15.7	9,417	16.4
Previous Recorded Suspensions or Revocations	3,450	7.3	3,013	30.3	6,463	11.2
Previous DWI Convictions	755	1.6	820	8.2	1,575	2.7
Previous Speeding Convictions	8,051	16.9	1,630	16.4	9,681	16.8
Previous Other Harmful Moving Convictions	7,192	15.1	2,289	23.0	9,481	16.5
Drivers with No Previous Convictions	27,550	57.9	4,503	45.2	32,053	55.7

Notes: Table does not include drivers with unknown license compliance. FARS records prior driving records (convictions only, not violations) for events occurring within 5 years of the date of the crash. The same driver can have one or more of these convictions. License compliance refers to the type of driver license possessed or not possessed by the driver for the class of vehicle being driven at the time of the crash.

Table 64. Related Factors for Drivers Involved in Fatal Crashes

Factors	Number	Percent
Driving too fast for conditions, in excess of posted speed limit, or racing	11,103	18.5
Under the influence of alcohol, drugs, or medication	6,594	11.0
Operating vehicle in a careless manner	5,319	8.9
Failure to yield right-of-way	4,432	7.4
Failure to keep in proper lane.....	3,420	5.7
Distracted (phone, talking, eating, object, etc.)	3,124	5.2
Failure to obey traffic signs, signals, or officer	2,541	4.2
Operating vehicle in erratic, reckless, or negligent manner	2,251	3.7
Overcorrecting/oversteering	1,708	2.8
Vision obscured (rain, snow, glare, lights, building, trees, etc.)	1,542	2.6
Swerving or avoiding due to wind, slippery surface, vehicle, object, non-motorist in roadway, etc.	1,334	2.2
Driving wrong way on one-way trafficway or wrong side of road	1,282	2.1
Drowsy, asleep, fatigued, ill, or blackout	1,264	2.1
Making improper turn	485	0.8
Other factors.....	6,017	10.0
None reported.....	8,492	14.1
Unknown.....	20,263	33.7
Total Drivers.....	60,048	100.0

Notes: The sum of the numbers and percentages is greater than total drivers as more than one factor may be present for the same driver.

4. People

Table 65. Vehicle Occupants Killed and Injured, by Vehicle Type, Person Type, and Injury Severity

Vehicle and Person Type	Occupants Killed	Occupants Injured by Injury Severity				Total Killed and Injured
		Incapacitating	Nonincapacitating	Other	Total Injured	
Passenger Car						
Drivers	9,698	44,972	246,616	447,116	738,704	748,402
Passengers	2,976	15,119	70,091	145,527	230,736	233,712
Unknown	17	4	344	3	351	368
<i>Subtotal</i>	<i>12,691</i>	<i>60,095</i>	<i>317,051</i>	<i>592,645</i>	<i>969,791</i>	982,482
Light Truck						
Drivers	9,664	44,769	236,749	400,395	681,913	691,577
Passengers	3,043	16,345	78,760	153,412	248,517	251,560
Unknown	22	51	4	263	318	340
<i>Subtotal</i>	<i>12,729</i>	<i>61,164</i>	<i>315,513</i>	<i>554,070</i>	<i>930,748</i>	943,477
Large Truck						
Drivers	914	4,232	13,953	17,493	35,678	36,592
Passengers	183	269	2,377	3,550	6,196	6,379
Unknown	0	0	0	0	0	0
<i>Subtotal</i>	<i>1,097</i>	<i>4,501</i>	<i>16,330</i>	<i>21,043</i>	<i>41,874</i>	42,971
Bus						
Drivers	9	312	748	1,012	2,073	2,082
Passengers	17	49	3,489	4,945	8,483	8,500
Unknown	0	0	0	0	0	0
<i>Subtotal</i>	<i>26</i>	<i>361</i>	<i>4,237</i>	<i>5,957</i>	<i>10,556</i>	10,582
Other/Unknown						
Drivers	623	9,843	35,054	117,651	162,547	163,170
Passengers	174	2,848	8,678	42,081	53,606	53,780
Unknown	4	0	0	1	1	5
<i>Subtotal</i>	<i>801</i>	<i>12,691</i>	<i>43,732</i>	<i>159,732</i>	<i>216,155</i>	216,956
Subtotal*	27,344	138,813	696,863	1,333,448	2,169,123	2,196,467
Motorcycle						
Riders	5,934	24,829	34,456	17,213	76,498	82,432
Passengers	280	2,142	2,467	1,580	6,189	6,469
Unknown	4	0	0	0	0	4
Subtotal	6,218	26,971	36,923	18,793	82,687	88,905
Total	33,562	165,784	733,786	1,352,241	2,251,810	2,285,372

*Excludes motorcycles.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 66. Vehicle Occupants Killed and Injured in Crashes, by Speed Limit and Crash Type

Speed Limit	Crash Type				Total	
	Single Vehicle		Multi-Vehicle			
	Number	Percent	Number	Percent	Number	Percent
Occupants Killed						
30 mph or less	1,705	11.2	1,321	7.2	3,026	9.0
35 or 40 mph	2,580	17.0	2,881	15.7	5,461	16.3
45 or 50 mph	2,753	18.1	3,813	20.7	6,566	19.6
55 mph	4,129	27.2	4,919	26.8	9,048	27.0
60 mph or higher	3,371	22.2	4,475	24.3	7,846	23.4
No Statutory Limit	29	0.2	256	1.4	285	0.8
Unknown	613	4.0	717	3.9	1,330	4.0
Total	15,180	100.0	18,382	100.0	33,562	100.0
Occupants Injured						
30 mph or less	74,612	16.5	221,563	12.3	296,175	13.2
35 or 40 mph	80,725	17.9	491,974	27.3	572,699	25.4
45 or 50 mph	69,741	15.4	443,412	24.6	513,153	22.8
55 mph	81,883	18.1	172,666	9.6	254,549	11.3
60 mph or higher	81,971	18.1	181,805	10.1	263,777	11.7
No Statutory Limit	1,265	0.3	27,266	1.5	28,531	1.3
Unknown	61,624	13.6	261,303	14.5	322,926	14.3
Total	451,822	100.0	1,799,989	100.0	2,251,810	100.0

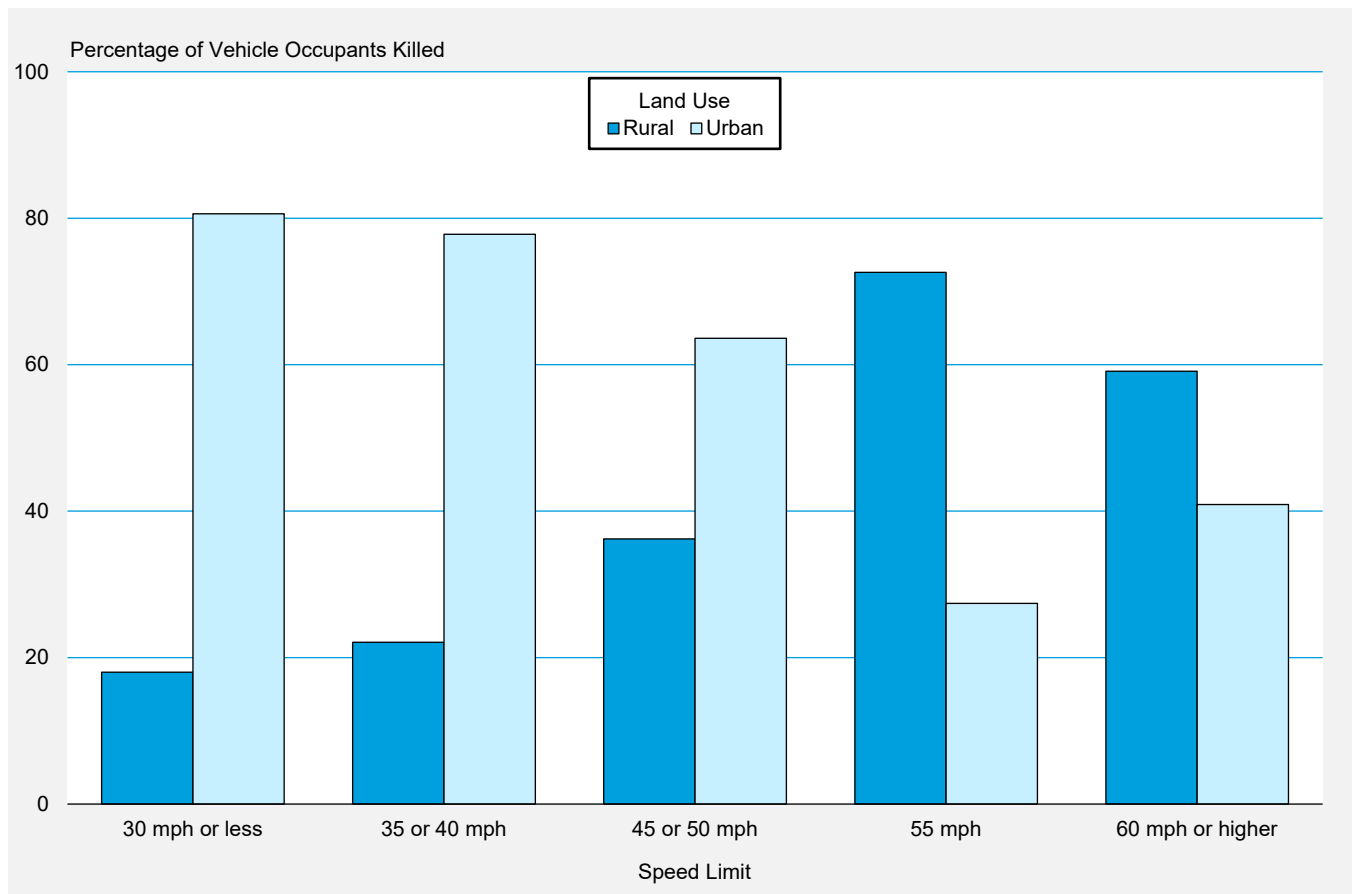
Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 67. Vehicle Occupants Killed in Crashes, by Speed Limit and Land Use

Speed Limit	Land Use						Total	
	Rural		Urban		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
30 mph or less	544	18.0	2,438	80.6	44	1.5	3,026	100.0
35 or 40 mph	1,205	22.1	4,249	77.8	7	0.1	5,461	100.0
45 or 50 mph	2,379	36.2	4,176	63.6	11	0.2	6,566	100.0
55 mph	6,568	72.6	2,475	27.4	5	0.1	9,048	100.0
60 mph or higher	4,634	59.1	3,208	40.9	4	0.1	7,846	100.0
No Statutory Limit	109	38.2	166	58.2	10	3.5	285	100.0
Unknown	469	35.3	805	60.5	56	4.2	1,330	100.0
Total	15,908	47.4	17,517	52.2	137	0.4	33,562	100.0

Figure 23. Percentage of Vehicle Occupants Killed, by Speed Limit and Land Use



4. People

Table 68. Vehicle Occupants Killed and Injured, by Sex and Vehicle Type

Sex	Vehicle Type							Total
	Passenger Cars	Light Trucks	Large Trucks	Buses	Other/ Unknown	Subtotal	Motorcycles	
Occupants Killed								
Male	8,100	8,729	992	16	630	18,467	5,734	24,201
Female	4,577	3,986	105	10	166	8,844	478	9,322
Unknown	14	14	0	0	5	33	6	39
Total	12,691	12,729	1,097	26	801	27,344	6,218	33,562
Occupants Injured								
Male	439,259	443,438	37,510	4,548	102,497	1,027,252	72,555	1,099,806
Female	530,507	487,261	4,363	5,999	113,646	1,141,775	10,131	1,151,906
Total*	969,791	930,748	41,874	10,556	216,155	2,169,123	82,687	2,251,810

*Includes people injured in fatal crashes from FARS with unknown sex.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 69. Vehicle Occupants Killed and Injured, by Age Group and Vehicle Type

Age Group	Vehicle Type							Total
	Passenger Cars	Light Trucks	Large Trucks	Buses	Other/ Unknown	Subtotal	Motorcycles	
Occupants Killed								
<5	113	141	4	0	14	272	1	273
5-9	103	112	6	0	18	239	1	240
10-14	125	162	4	0	36	327	16	343
15-20	1,657	967	31	2	84	2,741	350	3,091
21-24	1,462	766	53	1	54	2,336	572	2,908
25-34	2,831	2,075	160	5	107	5,178	1,478	6,656
35-44	1,764	1,907	202	3	117	3,993	1,144	5,137
45-54	1,252	1,692	236	1	97	3,278	1,063	4,341
55-64	1,206	1,778	244	5	116	3,349	952	4,301
65-74	931	1,544	121	7	84	2,687	507	3,194
>74	1,211	1,558	35	2	69	2,875	126	3,001
Unknown	36	27	1	0	5	69	8	77
Total	12,691	12,729	1,097	26	801	27,344	6,218	33,562
Occupants Injured								
<5	17,610	18,262	145	9	2,303	38,330	51	38,381
5-9	18,648	24,558	32	966	4,545	48,749	177	48,927
10-14	20,210	24,882	477	2,663	4,010	52,242	795	53,037
15-20	153,316	83,690	1,223	2,009	21,259	261,499	7,131	268,629
21-24	119,533	64,882	2,705	56	22,622	209,798	9,350	219,148
25-34	216,124	167,165	8,833	775	46,203	439,100	20,313	459,413
35-44	137,878	162,522	8,919	852	38,136	348,306	14,787	363,092
45-54	102,054	134,354	7,970	1,079	30,332	275,789	13,207	288,996
55-64	90,051	122,751	9,136	1,194	24,314	247,445	10,452	257,897
65-74	56,716	84,590	1,810	777	13,329	157,222	5,353	162,575
>74	37,581	42,994	620	169	9,085	90,449	1,066	91,516
Total*	969,791	930,748	41,874	10,556	216,155	2,169,123	82,687	2,251,810

*Includes people injured in fatal crashes from FARS with unknown age.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 70. Vehicle Occupants Killed and Injured, by Age Group, Person Type, and Sex

Age Group	Person Type											
	Drivers						Passengers					
	Sex				Total*		Sex				Total**	
	Male		Female				Male		Female			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Occupants Killed												
<5	1	100.0	0	0.0	1	100.0	144	52.9	128	47.1	272	100.0
5-9	2	100.0	0	0.0	2	100.0	122	51.3	116	48.7	238	100.0
10-14	36	83.7	7	16.3	43	100.0	148	49.3	151	50.3	300	100.0
15-20	1,576	77.5	456	22.4	2,034	100.0	609	57.6	445	42.1	1,057	100.0
21-24	1,820	79.0	484	21.0	2,305	100.0	339	56.2	263	43.6	603	100.0
25-34	4,391	78.9	1,168	21.0	5,565	100.0	588	53.9	502	46.0	1,091	100.0
35-44	3,511	80.9	825	19.0	4,338	100.0	379	47.4	420	52.6	799	100.0
45-54	3,003	79.5	776	20.5	3,779	100.0	239	42.5	322	57.3	562	100.0
55-64	2,929	78.9	784	21.1	3,714	100.0	249	42.4	338	57.6	587	100.0
65-74	2,087	76.9	624	23.0	2,713	100.0	161	33.5	320	66.5	481	100.0
>74	1,616	69.9	693	30.0	2,311	100.0	210	30.4	478	69.3	690	100.0
Unknown	26	70.3	4	10.8	37	100.0	15	37.5	18	45.0	40	100.0
Total	20,998	78.2	5,821	21.7	26,842	100.0	3,203	47.7	3,501	52.1	6,720	100.0
Occupants Injured												
<5	28	100.0	0	0.0	28	100.0	18,204	47.5	20,144	52.5	38,353	100.0
5-9	73	75.5	24	24.5	96	100.0	22,643	46.4	26,180	53.6	48,830	100.0
10-14	1,723	72.3	661	27.7	2,383	100.0	22,019	43.5	28,632	56.5	50,654	100.0
15-20	93,631	51.9	86,720	48.1	180,353	100.0	34,564	39.2	53,702	60.8	88,276	100.0
21-24	92,582	53.5	80,405	46.5	172,988	100.0	19,308	41.8	26,848	58.2	46,160	100.0
25-34	202,927	53.5	176,629	46.5	379,558	100.0	31,838	39.9	48,014	60.1	79,855	100.0
35-44	157,504	51.8	146,690	48.2	304,197	100.0	21,637	36.7	37,255	63.3	58,895	100.0
45-54	120,848	49.6	122,578	50.4	243,426	100.0	14,052	30.8	31,518	69.2	45,570	100.0
55-64	110,672	52.1	101,573	47.9	212,244	100.0	13,429	29.4	32,223	70.6	45,653	100.0
65-74	71,445	54.0	60,973	46.0	132,423	100.0	9,168	30.4	20,984	69.6	30,152	100.0
>74	35,050	50.3	34,623	49.7	69,676	100.0	6,368	29.2	15,471	70.8	21,840	100.0
Unknown	19	47.5	3	7.5	40	100.0	76	47.5	58	36.3	160	100.0
Total	886,501	52.2	810,879	47.8	1,697,413	100.0	213,305	38.5	341,027	61.5	554,397	100.0

*Includes drivers of unknown sex.

**Includes passengers of unknown sex.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 71. Vehicle Occupants Killed and Injured, by Vehicle Type and Most Harmful Event

Vehicle Type	Most Harmful Event								Total*	
	Collision With						Noncollision			
	Motor Vehicle In-Transport		Object Not Fixed		Fixed Object					
	Number	Percent	Number	Percent	Number	Percent				
Occupants Killed										
Passenger Car	6,904	54.4	308	2.4	3,464	27.3	2,008	15.8	12,691	100.0
Light Truck	5,537	43.5	326	2.6	3,328	26.1	3,535	27.8	12,729	100.0
Large Truck	336	30.6	35	3.2	266	24.2	460	41.9	1,097	100.0
Bus	15	57.7	0	0.0	6	23.1	5	19.2	26	100.0
Other/Unknown	245	30.6	16	2.0	139	17.4	349	43.6	801	100.0
<i>Subtotal</i>	<i>13,037</i>	<i>47.7</i>	<i>685</i>	<i>2.5</i>	<i>7,203</i>	<i>26.3</i>	<i>6,357</i>	<i>23.2</i>	<i>27,344</i>	<i>100.0</i>
Motorcycle	3,606	58.0	271	4.4	1,566	25.2	750	12.1	6,218	100.0
Total	16,643	49.6	956	2.8	8,769	26.1	7,107	21.2	33,562	100.0
Occupants Injured										
Passenger Car	779,764	80.4	33,458	3.5	123,652	12.8	32,913	3.4	969,791	100.0
Light Truck	733,014	78.8	35,379	3.8	105,493	11.3	56,860	6.1	930,748	100.0
Large Truck	23,719	56.6	1,940	4.6	6,610	15.8	9,605	22.9	41,874	100.0
Bus	8,550	81.0	430	4.1	833	7.9	743	7.0	10,556	100.0
Other/Unknown	173,024	80.0	13,788	6.4	21,953	10.2	7,386	3.4	216,155	100.0
<i>Subtotal</i>	<i>1,718,072</i>	<i>79.2</i>	<i>84,995</i>	<i>3.9</i>	<i>258,541</i>	<i>11.9</i>	<i>107,507</i>	<i>5.0</i>	<i>2,169,123</i>	<i>100.0</i>
Motorcycle	45,920	55.5	5,646	6.8	11,444	13.8	19,676	23.8	82,687	100.0
Total	1,763,992	78.3	90,641	4.0	269,985	12.0	127,183	5.6	2,251,810	100.0

*Includes people killed and injured where the most harmful event was unknown or there was a harmful event, but the details were not reported.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 72. Vehicle Occupants Killed and Injured, by Initial Point of Impact and Vehicle Type

Initial Point of Impact	Vehicle Type							Total
	Passenger Cars	Light Trucks	Large Trucks	Buses	Other/ Unknown	Subtotal	Motorcycles	
Occupants Killed								
Front	7,389	7,613	657	9	278	15,946	3,883	19,829
Left Side	1,739	1,307	74	1	58	3,179	339	3,518
Right Side	1,526	1,071	68	3	39	2,707	295	3,002
Rear	683	648	32	5	63	1,431	252	1,683
Other	104	135	11	1	8	259	29	288
Noncollision	510	1,333	208	6	244	2,301	980	3,281
Unknown	740	622	47	1	111	1,521	440	1,961
Total	12,691	12,729	1,097	26	801	27,344	6,218	33,562
Occupants Injured								
Front	554,184	498,716	19,247	3,823	115,870	1,191,841	40,868	1,232,709
Left Side	100,695	91,966	3,222	494	19,474	215,850	8,093	223,943
Right Side	79,376	78,874	4,419	1,691	19,279	183,639	7,168	190,807
Rear	221,302	230,640	6,695	3,789	57,449	519,874	5,179	525,053
Other	3,224	3,923	1,192	30	837	9,206	83	9,289
Noncollision	10,679	26,216	7,068	729	3,223	47,915	21,260	69,175
Unknown	332	413	31	0	22	798	36	834
Total	969,791	930,748	41,874	10,556	216,155	2,169,123	82,687	2,251,810

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 73. Vehicle Occupants Killed and Injured, by Vehicle Type and Ejection

Vehicle Type	Ejected*		Not Ejected		Unknown		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Occupants Killed								
Passenger Car	2,119	16.7	10,499	82.7	73	0.6	12,691	100.0
Light Truck	3,326	26.1	9,309	73.1	94	0.7	12,729	100.0
Large Truck	283	25.8	804	73.3	10	0.9	1,097	100.0
Bus	11	42.3	15	57.7	0	0.0	26	100.0
Other/Unknown	381	47.6	335	41.8	85	10.6	801	100.0
Total**	6,120	22.4	20,962	76.7	262	1.0	27,344	100.0
Occupants Injured								
Passenger Car	3,706	0.4	966,025	99.6	60	0.0	969,791	100.0
Light Truck	7,024	0.8	923,634	99.2	90	0.0	930,748	100.0
Large Truck	1,073	2.6	40,793	97.4	8	0.0	41,874	100.0
Bus	669	6.3	9,887	93.7	0	0.0	10,556	100.0
Other/Unknown	2,505	1.2	213,637	98.8	12	0.0	216,155	100.0
Total**	14,977	0.7	2,153,976	99.3	170	0.0	2,169,123	100.0

*Includes total and partial ejection.

**Excludes motorcyclists.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 74. Vehicle Occupants Killed and Injured in Two-Vehicle Crashes, by Vehicle Types Involved

Vehicle Type	Occupants Killed	Vehicle Type	Occupants Killed	Total Occupants Killed
Passenger Car	—	Passenger Car	—	1,670
Passenger Car	2,978	Light Truck	1,087	4,065
Passenger Car	1,308	Large Truck	58	1,366
Passenger Car	12	Motorcycle	1,076	1,088
Passenger Car	37	Bus	1	38
Passenger Car	61	Other/Unknown	61	122
Light Truck	—	Light Truck	—	2,347
Light Truck	1,543	Large Truck	86	1,629
Light Truck	14	Motorcycle	1,834	1,848
Light Truck	51	Bus	5	56
Light Truck	76	Other/Unknown	114	190
Large Truck	—	Large Truck	—	204
Large Truck	0	Motorcycle	340	340
Large Truck	2	Bus	11	13
Large Truck	7	Other/Unknown	41	48
Motorcycle	—	Motorcycle	—	77
Motorcycle	20	Bus	0	20
Motorcycle	57	Other/Unknown	3	60
Bus	—	Bus	—	0
Bus	0	Other/Unknown	1	1
Other/Unknown	—	Other/Unknown	—	33
Total Occupants Killed.....				15,215
Vehicle Type	Occupants Injured	Vehicle Type	Occupants Injured	Total Occupants Injured
Passenger Car	—	Passenger Car	—	268,240
Passenger Car	312,861	Light Truck	246,335	559,196
Passenger Car	36,164	Large Truck	6,332	42,497
Passenger Car	3,132	Motorcycle	17,645	20,778
Passenger Car	2,336	Bus	2,756	5,092
Passenger Car	29,233	Other/Unknown	21,171	50,404
Light Truck	—	Light Truck	—	292,656
Light Truck	39,148	Large Truck	9,599	48,747
Light Truck	2,069	Motorcycle	16,990	19,059
Light Truck	1,929	Bus	2,957	4,886
Light Truck	22,887	Other/Unknown	21,767	44,655
Large Truck	—	Large Truck	—	4,052
Large Truck	43	Motorcycle	1,266	1,309
Large Truck	135	Bus	550	684
Large Truck	823	Other/Unknown	3,766	4,589
Total Occupants Injured.....				1,366,844

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 75. Vehicle Occupants Involved in Fatal Crashes and Occupant Fatalities, by Vehicle Body Class

Vehicle Body Class	Occupants Involved		Occupants Killed	
	Number	Percent	Number	Percent
Passenger Cars	29,021	33.8	12,691	37.8
Convertible	578	0.7	323	1.0
Sedan	22,998	26.8	9,846	29.3
Coupe	2,504	2.9	1,208	3.6
Hatchback	2,525	2.9	1,103	3.3
Wagon	416	0.5	211	0.6
Light Trucks	39,427	45.9	12,729	37.9
Utility	22,213	25.9	7,103	21.2
Minivan	2,244	2.6	627	1.9
Cargo Van	669	0.8	180	0.5
Step Van	2	0.0	0	0.0
Other Van Type	831	1.0	240	0.7
Light Pickup	13,449	15.7	4,572	13.6
Other Light Truck	19	0.0	7	0.0
Large Trucks	7,050	8.2	1,097	3.3
Utility	2	0.0	0	0.0
Cargo Van	34	0.0	6	0.0
Step Van	34	0.0	8	0.0
Other Van Type	98	0.1	15	0.0
Large Pickup	1,137	1.3	184	0.5
Single-Unit Truck	1,799	2.1	321	1.0
Truck Tractor	3,804	4.4	548	1.6
Other Large Truck	142	0.2	15	0.0
Motorcycles	6,888	8.0	6,218	18.5
2-Wheel Motorcycle (excluding Motor Scooters)	6,151	7.2	5,557	16.6
Moped	44	0.1	42	0.1
3-Wheel Motorcycle (2 Rear Wheels)	94	0.1	83	0.2
Off-Road Motorcycle	149	0.2	133	0.4
Unenclosed 3-Wheel Motorcycle/Unenclosed Autocycle (1 Rear Wheel)	56	0.1	41	0.1
Motor Scooter	261	0.3	242	0.7
Other Motored Cycle Type (Minibikes, Pocket Bikes)	22	0.0	19	0.1
Unknown Motored Cycle Type	111	0.1	101	0.3
Buses*	695	0.8	26	0.1
School Bus	286	0.3	10	0.0
Intercity Bus	82	0.1	0	0.0
Transit Bus	159	0.2	2	0.0
Other Bus	168	0.2	14	0.0
Other Vehicle Types	2,742	3.2	801	2.4
Motorhome	112	0.1	24	0.1
All-Terrain Vehicle	329	0.4	254	0.8
Recreational Off-Road Vehicle	411	0.5	216	0.6
Snowmobile	16	0.0	15	0.0
Farm Equipment	124	0.1	49	0.1
Construction Equipment	14	0.0	3	0.0
Low-Speed Vehicle	11	0.0	5	0.0
Golf Cart	44	0.1	26	0.1
Street Sweeper	3	0.0	1	0.0
Other Vehicle	147	0.2	51	0.2
Unknown Vehicle Types	1,531	1.8	157	0.5
Total	85,823	100.0	33,562	100.0

*Noninjured passengers are not included in this bus occupant count. All bus drivers are included, regardless of injury severity.

Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

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Table 76. Passenger Car and Light-Truck Occupants Involved in Fatal Crashes and Occupants Killed, by Vehicle Age and Vehicle Type

Vehicle Age (Years)	Passenger Cars			Light Trucks								
				Pickup			Utility			Van		
	Occupants Involved	Occupants Killed		Occupants Involved	Occupants Killed		Occupants Involved	Occupants Killed		Occupants Involved	Occupants Killed	
		Number	Percent		Number	Percent		Number	Percent		Number	Percent
0-3	3,582	1,316	36.74	1,920	425	22.14	4,878	1,256	25.75	582	127	21.82
4-7	6,392	2,407	37.66	2,389	527	22.06	5,355	1,468	27.41	750	164	21.87
8-11	6,159	2,405	39.05	1,810	473	26.13	3,641	1,078	29.61	659	141	21.40
12-15	5,259	2,441	46.42	1,745	595	34.10	2,819	922	32.71	580	163	28.10
16-19	4,269	2,236	52.38	2,441	1,020	41.79	3,302	1,339	40.55	707	249	35.22
20+	3,262	1,871	57.36	3,144	1,529	48.63	2,209	1,042	47.17	474	202	42.62
Unknown	98	15	15.31	43	7	16.28	63	5	7.94	10	1	10.00
Total	29,021	12,691	43.73	13,492	4,576	33.92	22,267	7,110	31.93	3,762	1,047	27.83

Notes: Vehicle age = crash year – model year. Vehicle age 0 includes model years 2022 and newer.

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Table 77. People Killed and Alcohol-Impaired-Driving Fatalities, by Person Type

Person Type	Total Killed	Alcohol-Impaired-Driving Fatalities*	
		Number	Percent
Vehicle Occupants			
Drivers	20,908	7,580	36
Passengers	6,393	2,144	34
Unknown	43	4	10
<i>Subtotal</i>	<i>27,344</i>	<i>9,729</i>	<i>36</i>
Motorcyclists	6,218	2,160	35
Nonoccupants			
Pedestrians	7,522	1,394	19
Pedalcyclists	1,105	177	16
Other/Unknown	325	64	20
<i>Subtotal</i>	<i>8,952</i>	<i>1,635</i>	<i>18</i>
Total	42,514	13,524	32

*Fatalities in crashes involving a driver with a BAC of .08 g/dL or greater. NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

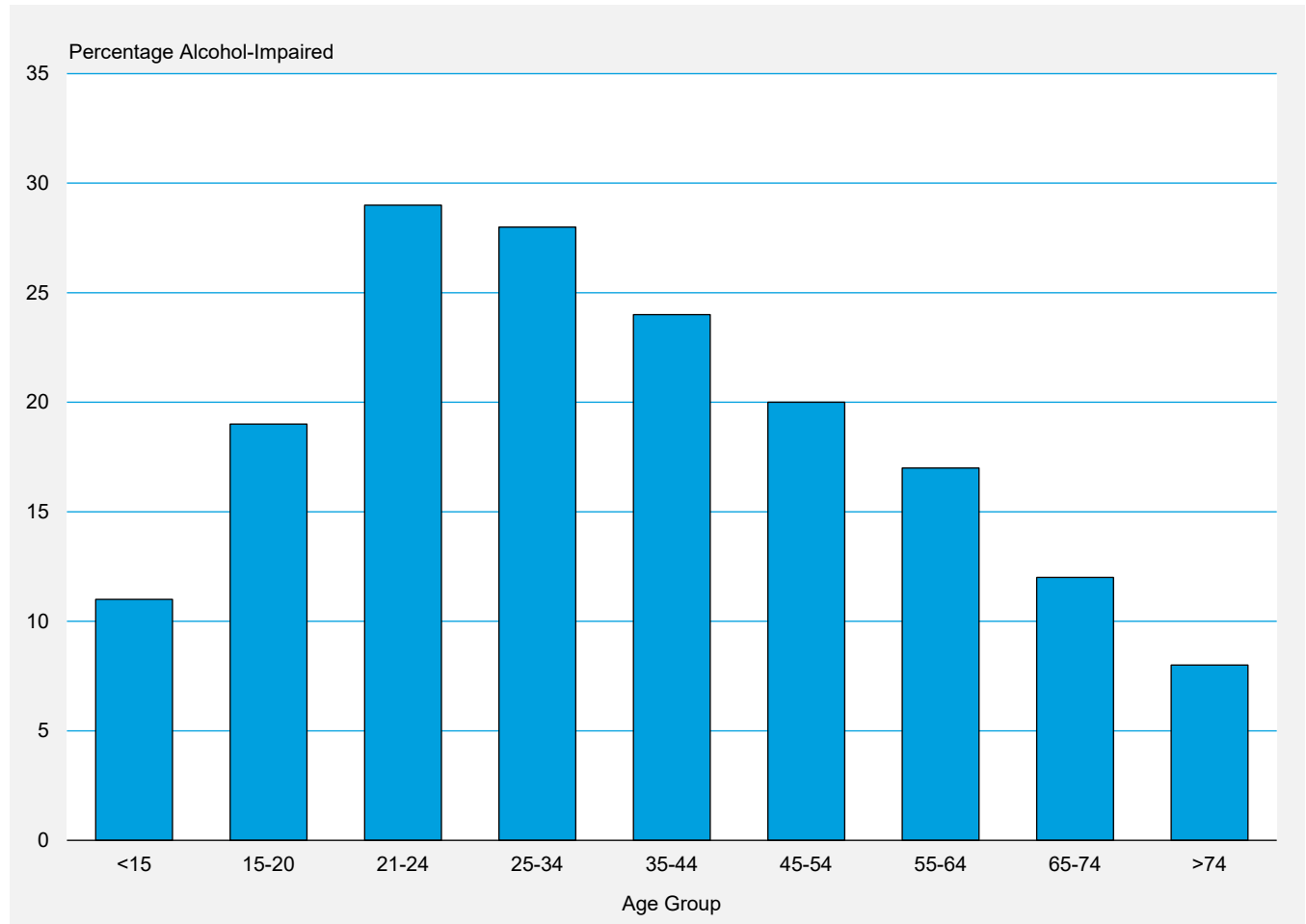
Table 78. Drivers Involved in Fatal Crashes, by Age Group and Their BACs

Age Group	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<15	74	86	3	3	10	11	13	14	87	100
15-20	3,714	76	195	4	947	19	1,142	24	4,856	100
21-24	3,485	66	248	5	1,546	29	1,794	34	5,279	100
25-34	8,559	68	567	4	3,485	28	4,052	32	12,611	100
35-44	7,403	72	465	4	2,476	24	2,941	28	10,344	100
45-54	6,561	76	314	4	1,744	20	2,058	24	8,619	100
55-64	6,258	79	294	4	1,347	17	1,641	21	7,899	100
65-74	4,282	85	144	3	627	12	771	15	5,053	100
>74	3,106	90	74	2	265	8	339	10	3,445	100
Unknown	1,181	64	166	9	508	27	674	36	1,855	100
Total	44,624	74	2,469	4	12,955	22	15,425	26	60,048	100

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

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Figure 24. Percentage of Drivers Involved in Fatal Crashes Who Were Alcohol-Impaired (BAC = .08+ g/dL), by Age Group



4. People

Table 79. Drivers Killed in Crashes, by Time of Day, Day of Week, Age Group, Alcohol Impairment, and Crash Type

Time of Day and Day of Week	Under 21		21 and Older	
	Number Killed	Percent Alcohol-Impaired*	Number Killed	Percent Alcohol-Impaired*
Single-Vehicle Crashes				
Daytime	389	16	4,938	24
Weekday	252	14	3,267	21
Weekend	137	19	1,671	29
Nighttime	694	44	6,078	59
Weekday	310	38	2,772	53
Weekend	384	50	3,306	63
Multi-Vehicle Crashes				
Daytime	493	6	7,867	10
Weekday	360	5	6,042	9
Weekend	133	9	1,825	14
Nighttime	480	20	5,620	34
Weekday	227	17	2,699	29
Weekend	253	22	2,921	38

*Highest BAC among drivers involved in the crash was .08 g/dL or greater. NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

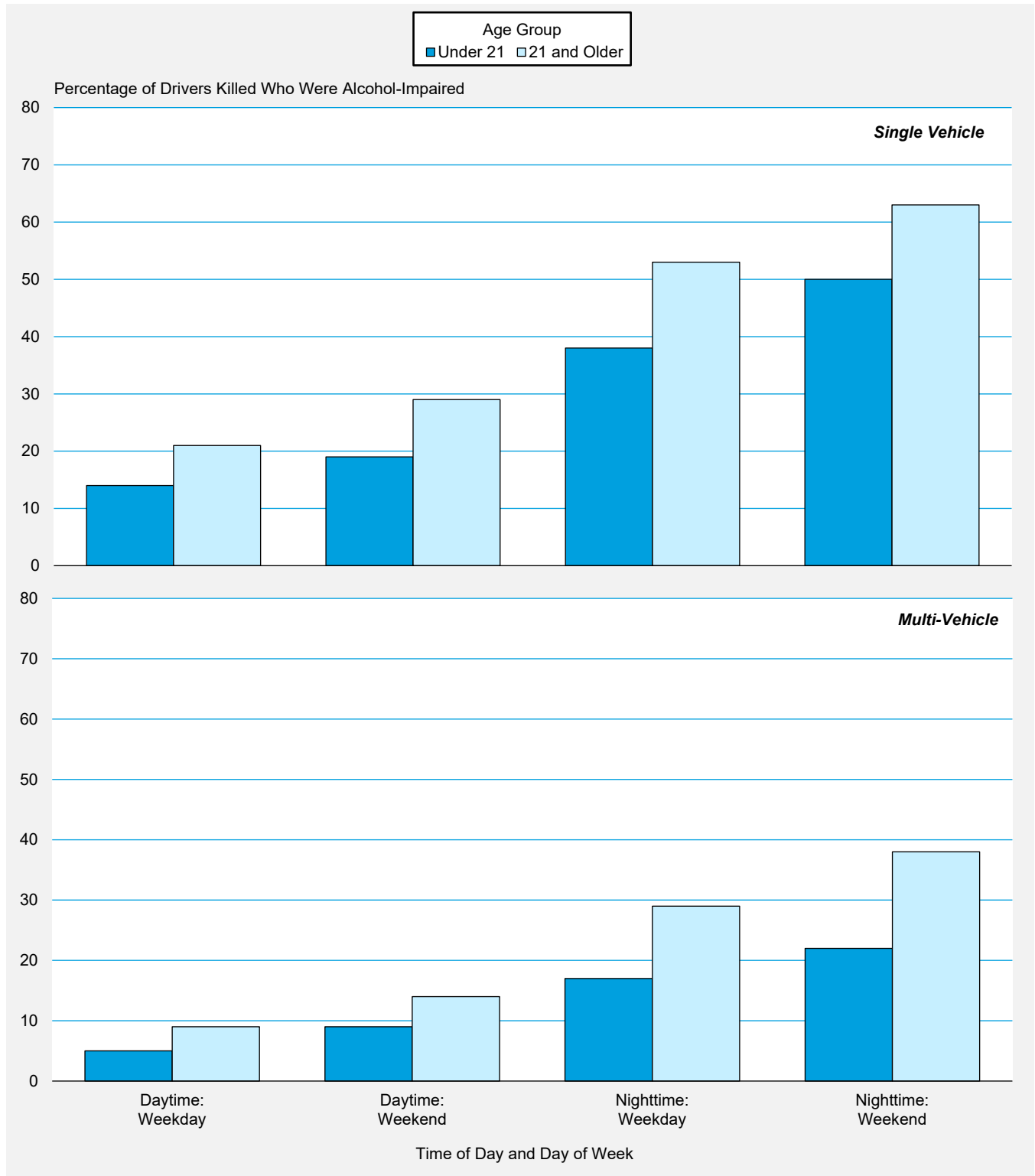
Table 80. Drivers Killed in Crashes, by Age Group and Their BACs

Age Group	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<15	41	88	2	4	3	7	5	12	46	100
15-20	1,430	70	98	5	506	25	604	30	2,034	100
21-24	1,258	55	130	6	918	40	1,047	45	2,305	100
25-34	3,031	54	314	6	2,221	40	2,534	46	5,565	100
35-44	2,504	58	265	6	1,569	36	1,835	42	4,338	100
45-54	2,398	63	183	5	1,198	32	1,381	37	3,779	100
55-64	2,571	69	193	5	950	26	1,143	31	3,714	100
65-74	2,174	80	95	3	444	16	539	20	2,713	100
>74	2,070	90	51	2	190	8	241	10	2,311	100
Unknown	21	58	3	8	13	35	16	42	37	100
Total	17,498	65	1,332	5	8,012	30	9,344	35	26,842	100

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

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Figure 25. Percentage of Drivers Killed Who Were Alcohol-Impaired (BAC = .08+ g/dL), by Age Group, Crash Type, Time of Day, and Day of Week



4. People

Table 81. Drivers Involved in Fatal Crashes, by Vehicle Type and Their BACs

Vehicle Type	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Passenger Car	14,210	71	768	4	4,911	25	5,679	29	19,889	100
Light Truck	19,303	75	904	4	5,406	21	6,310	25	25,613	100
Large Truck	5,465	95	132	2	163	3	296	5	5,760	100
Bus	186	88	6	3	19	9	25	12	211	100
Other/Unknown	1,367	61	210	9	649	29	859	39	2,226	100
<i>Subtotal</i>	<i>40,531</i>	<i>75</i>	<i>2,021</i>	<i>4</i>	<i>11,148</i>	<i>21</i>	<i>13,168</i>	<i>25</i>	<i>53,699</i>	<i>100</i>
Motorcycle	4,093	64	449	7	1,808	28	2,256	36	6,349	100
Total	44,624	74	2,469	4	12,955	22	15,425	26	60,048	100

Notes: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

Table 82. People Killed, by Age Group and Highest Driver BAC in the Crash

Age Group	BAC = .00		BAC = .01-.07		Alcohol-Impaired-Driving Fatalities (BAC = .08+)		BAC = .01+		Total*	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<5	237	67	15	4	102	29	117	33	355	100
5-9	218	70	19	6	75	24	94	30	312	100
10-14	329	71	25	5	107	23	132	28	462	100
15-20	2,153	63	214	6	1,062	31	1,276	37	3,434	100
21-24	1,660	50	202	6	1,452	44	1,654	50	3,319	100
25-34	4,224	52	505	6	3,362	41	3,867	48	8,104	100
35-44	3,824	57	426	6	2,443	36	2,869	43	6,702	100
45-54	3,477	61	295	5	1,910	34	2,205	39	5,688	100
55-64	4,014	67	323	5	1,622	27	1,945	33	5,967	100
65-74	3,245	76	190	4	849	20	1,039	24	4,291	100
>74	3,061	83	115	3	488	13	604	16	3,680	100
Unknown	138	69	8	4	52	26	60	30	200	100
Total	26,580	63	2,337	5	13,524	32	15,861	37	42,514	100

*Includes people killed in crashes in which there was no driver present.

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

Table 83. Pedestrians Killed, by Pedestrian's and Driver's BAC

Pedestrian's BAC	Driver's BAC						Total	
	.00		.01-.07		.08+			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
.00	3,957	53	189	3	798	11	4,944	66
.01-.07	235	3	17	0	64	1	317	4
.08+	1,646	22	111	1	418	6	2,175	29
Total*	5,839	79	316	4	1,281	17	7,436	100

*Includes pedestrians struck by motorcycles. Does not include pedestrians killed in hit-and-run crashes.

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

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Table 84. Drivers Involved in Crashes, by Vehicle Type, Restraint Use, and Crash Severity

Vehicle Type	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Drivers in Fatal Crashes								
Passenger Car	12,636	63.5	5,087	25.6	2,166	10.9	19,889	100.0
Light Truck	16,972	66.3	6,101	23.8	2,540	9.9	25,613	100.0
Large Truck	4,693	81.5	635	11.0	432	7.5	5,760	100.0
Bus	177	83.9	17	8.1	17	8.1	211	100.0
Other/Unknown	177	8.0	715	32.1	1,334	59.9	2,226	100.0
Total*	34,655	64.5	12,555	23.4	6,489	12.1	53,699	100.0
Drivers in Injury Crashes								
Passenger Car	1,046,864	86.8	40,111	3.3	118,577	9.8	1,205,553	100.0
Light Truck	1,121,951	87.2	43,786	3.4	121,140	9.4	1,286,878	100.0
Large Truck	102,690	86.1	3,197	2.7	13,323	11.2	119,211	100.0
Bus	9,181	88.3	153	1.5	1,064	10.2	10,398	100.0
Other/Unknown	238,805	69.2	11,708	3.4	94,375	27.4	344,888	100.0
Total*	2,519,491	84.9	98,956	3.3	348,480	11.7	2,966,927	100.0
Drivers in Property-Damage-Only Crashes								
Passenger Car	2,500,796	89.9	35,930	1.3	246,089	8.8	2,782,815	100.0
Light Truck	2,900,110	89.9	42,625	1.3	282,812	8.8	3,225,547	100.0
Large Truck	357,190	87.5	5,247	1.3	45,558	11.2	407,995	100.0
Bus	37,791	89.3	135	0.3	4,414	10.4	42,340	100.0
Other/Unknown	597,278	64.8	14,604	1.6	309,546	33.6	921,428	100.0
Total*	6,393,165	86.6	98,541	1.3	888,419	12.0	7,380,125	100.0
All Crashes								
Passenger Car	3,560,296	88.8	81,128	2.0	366,832	9.2	4,008,256	100.0
Light Truck	4,039,033	89.0	92,513	2.0	406,492	9.0	4,538,038	100.0
Large Truck	464,572	87.2	9,080	1.7	59,313	11.1	532,965	100.0
Bus	47,150	89.0	304	0.6	5,495	10.4	52,949	100.0
Other/Unknown	836,260	65.9	27,027	2.1	405,255	31.9	1,268,543	100.0
Total*	8,947,311	86.0	210,052	2.0	1,243,388	12.0	10,400,751	100.0

*Excludes motorcycle riders.

Notes: Restraint use is determined by police and may be overreported for survivors. Totals may not equal sum of components due to independent rounding.

4. People

Table 85. Passenger Car and Light-Truck Occupants Killed and Injured, by Age Group and Restraint Use

Age Group	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Occupants Killed								
<5	169	66.5	66	26.0	19	7.5	254	100.0
5-9	122	56.7	70	32.6	23	10.7	215	100.0
10-14	118	41.1	130	45.3	39	13.6	287	100.0
15-20	974	37.1	1,347	51.3	303	11.5	2,624	100.0
21-24	780	35.0	1,147	51.5	301	13.5	2,228	100.0
25-34	1,677	34.2	2,623	53.5	606	12.4	4,906	100.0
35-44	1,374	37.4	1,862	50.7	435	11.8	3,671	100.0
45-54	1,280	43.5	1,339	45.5	325	11.0	2,944	100.0
55-64	1,514	50.7	1,212	40.6	258	8.6	2,984	100.0
65-74	1,483	59.9	789	31.9	203	8.2	2,475	100.0
>74	1,893	68.4	703	25.4	173	6.2	2,769	100.0
Unknown	26	41.3	14	22.2	23	36.5	63	100.0
Total	11,410	44.9	11,302	44.5	2,708	10.7	25,420	100.0
Occupants Injured								
<5	32,848	91.6	1,315	3.7	1,710	4.8	35,873	100.0
5-9	37,855	87.6	1,913	4.4	3,439	8.0	43,206	100.0
10-14	38,163	84.6	3,044	6.7	3,885	8.6	45,092	100.0
15-20	191,928	81.0	18,774	7.9	26,304	11.1	237,007	100.0
21-24	152,136	82.5	11,275	6.1	21,003	11.4	184,414	100.0
25-34	320,937	83.7	25,715	6.7	36,638	9.6	383,289	100.0
35-44	254,019	84.6	16,423	5.5	29,957	10.0	300,399	100.0
45-54	202,631	85.7	9,379	4.0	24,398	10.3	236,408	100.0
55-64	184,751	86.8	6,436	3.0	21,614	10.2	212,801	100.0
65-74	123,510	87.4	4,136	2.9	13,660	9.7	141,306	100.0
>74	71,887	89.2	1,621	2.0	7,067	8.8	80,575	100.0
Total*	1,610,752	84.8	100,070	5.3	189,717	10.0	1,900,539	100.0

*Includes people injured in fatal crashes from FARS with unknown age.

Notes: Restraint use is determined by police and may be overreported for survivors. Totals may not equal sum of components due to independent rounding.

4. People

Table 86. Passenger Car and Light-Truck Occupant Survivors of Fatal Crashes, by Age Group and Restraint Use

Age Group	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<5	1,229	86.4	127	8.9	67	4.7	1,423	100.0
5-9	1,152	80.8	175	12.3	99	6.9	1,426	100.0
10-14	1,178	76.1	242	15.6	128	8.3	1,548	100.0
15-20	3,990	68.9	1,166	20.1	633	10.9	5,789	100.0
21-24	2,993	70.4	741	17.4	518	12.2	4,252	100.0
25-34	6,137	73.5	1,350	16.2	857	10.3	8,344	100.0
35-44	5,003	78.0	786	12.2	628	9.8	6,417	100.0
45-54	3,923	84.7	352	7.6	358	7.7	4,633	100.0
55-64	3,336	86.1	273	7.0	267	6.9	3,876	100.0
65-74	2,341	88.1	157	5.9	158	5.9	2,656	100.0
>74	1,345	89.4	75	5.0	85	5.6	1,505	100.0
Unknown	205	17.7	105	9.1	849	73.3	1,159	100.0
Total	32,832	76.3	5,549	12.9	4,647	10.8	43,028	100.0

Note: Restraint use is determined by police and may be overreported for survivors.

4. People

Table 87. Passenger Car Occupants Killed and Injured, by Seating Position and Restraint Use

Seating Position	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Passenger Car Occupants Killed								
Front Seat	5,656	48.5	4,772	40.9	1,229	10.5	11,657	100.0
Left	4,650	47.9	4,036	41.6	1,015	10.5	9,701	100.0
Middle	3	42.9	1	14.3	3	42.9	7	100.0
Right	1,002	51.5	732	37.6	211	10.8	1,945	100.0
Other/Unknown	1	25.0	3	75.0	0	0.0	4	100.0
Second Seat	303	32.7	502	54.1	123	13.3	928	100.0
Left	119	35.7	171	51.4	43	12.9	333	100.0
Middle	20	19.4	69	67.0	14	13.6	103	100.0
Right	160	34.8	241	52.4	59	12.8	460	100.0
Other/Unknown	4	12.5	21	65.6	7	21.9	32	100.0
Other	2	11.8	14	82.4	1	5.9	17	100.0
Unknown	5	5.6	48	53.9	36	40.4	89	100.0
Total	5,966	47.0	5,336	42.0	1,389	10.9	12,691	100.0
Passenger Car Occupants Injured								
Front Seat	761,312	85.7	40,935	4.6	86,580	9.7	888,827	100.0
Left	632,875	85.6	33,716	4.6	72,348	9.8	738,939	100.0
Middle	1,158	86.0	118	8.8	71	5.3	1,347	100.0
Right	127,277	85.7	7,098	4.8	14,161	9.5	148,537	100.0
Other/Unknown	2	50.0	2	50.0	0	0.0	4	100.0
Second Seat	65,899	81.6	7,145	8.8	7,742	9.6	80,785	100.0
Left	26,216	81.1	3,155	9.8	2,935	9.1	32,306	100.0
Middle	6,597	74.3	1,387	15.6	892	10.0	8,875	100.0
Right	32,962	83.6	2,578	6.5	3,904	9.9	39,444	100.0
Other/Unknown	123	77.4	25	15.7	11	6.9	159	100.0
Other	3	4.0	71	94.7	1	1.3	75	100.0
Total*	827,237	85.3	48,185	5.0	94,370	9.7	969,791	100.0

*Includes people injured in fatal crashes from FARS with unknown seating position.

Notes: Restraint use is determined by police and may be overreported for survivors. Totals may not equal sum of components due to independent rounding.

4. People

Table 88. Light-Truck Occupants Killed and Injured, by Seating Position and Restraint Use

Seating Position	Restraint Use						Total	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Light-Truck Occupants Killed								
Front Seat	5,055	43.9	5,298	46.0	1,160	10.1	11,513	100.0
Left	4,119	42.6	4,575	47.4	968	10.0	9,662	100.0
Middle	5	20.0	18	72.0	2	8.0	25	100.0
Right	930	51.1	701	38.5	188	10.3	1,819	100.0
Other/Unknown	1	14.3	4	57.1	2	28.6	7	100.0
Second Seat	341	39.3	449	51.7	78	9.0	868	100.0
Left	143	41.9	171	50.1	27	7.9	341	100.0
Middle	25	23.8	65	61.9	15	14.3	105	100.0
Right	171	42.5	200	49.8	31	7.7	402	100.0
Other/Unknown	2	10.0	13	65.0	5	25.0	20	100.0
Other	28	17.1	123	75.0	13	7.9	164	100.0
Unknown	20	10.9	96	52.2	68	37.0	184	100.0
Total	5,444	42.8	5,966	46.9	1,319	10.4	12,729	100.0
Light-Truck Occupants Injured								
Front Seat	701,719	84.3	43,227	5.2	87,680	10.5	832,626	100.0
Left	573,640	84.2	34,923	5.1	72,503	10.6	681,065	100.0
Middle	1,366	70.1	101	5.2	480	24.7	1,947	100.0
Right	126,708	84.7	8,198	5.5	14,696	9.8	149,603	100.0
Other/Unknown	5	45.5	5	45.5	1	9.1	11	100.0
Second Seat	75,669	85.1	6,749	7.6	6,464	7.3	88,883	100.0
Left	29,680	86.9	2,225	6.5	2,236	6.6	34,142	100.0
Middle	8,628	80.7	1,163	10.9	906	8.5	10,697	100.0
Right	37,278	85.3	3,233	7.4	3,183	7.3	43,695	100.0
Other/Unknown	83	23.8	128	36.7	138	39.5	350	100.0
Other	6,105	67.7	1,799	19.9	1,114	12.4	9,018	100.0
Total*	783,515	84.2	51,885	5.6	95,348	10.2	930,748	100.0

*Includes people injured in fatal crashes from FARS with unknown seating position.

Notes: Restraint use is determined by police and may be overreported for survivors. Totals may not equal sum of components due to independent rounding.

4. People

Table 89. Passenger Car and Light-Truck Occupants Killed and Injured, by Restraint Use and Type of Restraint

Restraint Use and Type of Restraint	Vehicle Type			
	Passenger Cars		Light Trucks	
	Number	Percent	Number	Percent
Occupants Killed				
Restraint Used				
Lap/Shoulder Belt	1,104	8.7	1,250	9.8
Lap Belt	18	0.1	21	0.2
Shoulder Belt	15	0.1	10	0.1
Child Safety Seat	34	0.3	47	0.4
Other/Type Unknown	20	0.2	26	0.2
Restraint Used, Air Bag Deployed	4,682	36.9	4,006	31.5
Safety Belt Used Improperly	77	0.6	70	0.5
Child Safety Seat Used Improperly	16	0.1	14	0.1
<i>Subtotal</i>	<i>5,966</i>	<i>47.0</i>	<i>5,444</i>	<i>42.8</i>
No Restraint Used	1,380	10.9	2,563	20.1
No Restraint Used, Air Bag Deployed	3,956	31.2	3,403	26.7
Restraint Use Unknown	1,389	10.9	1,319	10.4
Total	12,691	100.0	12,729	100.0
Occupants Injured				
Restraint Used				
Lap/Shoulder Belt	405,200	41.8	414,483	44.5
Lap Belt	3,129	0.3	2,533	0.3
Shoulder Belt	2,983	0.3	2,282	0.2
Child Safety Seat	14,250	1.5	17,290	1.9
Other/Type Unknown	818	0.1	1,854	0.2
Restraint Used, Air Bag Deployed	392,915	40.5	335,422	36.0
Safety Belt Used Improperly	6,991	0.7	8,856	1.0
Child Safety Seat Used Improperly	949	0.1	795	0.1
<i>Subtotal</i>	<i>827,237</i>	<i>85.3</i>	<i>783,515</i>	<i>84.2</i>
No Restraint Used	17,766	1.8	26,318	2.8
No Restraint Used, Air Bag Deployed	30,418	3.1	25,568	2.7
Restraint Use Unknown	94,370	9.7	95,348	10.2
Total	969,791	100.0	930,748	100.0

Notes: Restraint use is determined by police and may be overreported for survivors. Totals may not equal sum of components due to independent rounding.

4. People

Table 90. Passenger Car and Light-Truck Occupants Killed, by Crash Type, Vehicle Type, and Rollover Occurrence

Vehicle Type	Rollover Occurrence				Total	
	Yes		No			
	Number	Percent	Number	Percent	Number	Percent
Single-Vehicle Crashes						
Passenger Cars	2,145	40.8	3,110	59.2	5,255	100.0
Light Trucks						
Pickup	1,416	54.0	1,207	46.0	2,623	100.0
Utility	1,845	54.1	1,565	45.9	3,410	100.0
Van	142	37.4	238	62.6	380	100.0
Other	1	16.7	5	83.3	6	100.0
Total	5,549	47.5	6,125	52.5	11,674	100.0
Multi-Vehicle Crashes						
Passenger Cars	545	7.3	6,891	92.7	7,436	100.0
Light Trucks						
Pickup	381	19.5	1,568	80.5	1,949	100.0
Utility	742	20.1	2,951	79.9	3,693	100.0
Van	94	14.1	573	85.9	667	100.0
Other	1	100.0	0	0.0	1	100.0
Total	1,763	12.8	11,983	87.2	13,746	100.0
All Crashes						
Passenger Cars	2,690	21.2	10,001	78.8	12,691	100.0
Light Trucks						
Pickup	1,797	39.3	2,775	60.7	4,572	100.0
Utility	2,587	36.4	4,516	63.6	7,103	100.0
Van	236	22.5	811	77.5	1,047	100.0
Other	2	28.6	5	71.4	7	100.0
Total	7,312	28.8	18,108	71.2	25,420	100.0

4. People

Table 91. Motorcyclists Killed and Injured, by Time of Day and Day of Week

Time of Day	Day of Week				Total*	
	Weekday		Weekend			
	Number	Percent	Number	Percent	Number	Percent
Motorcyclists Killed						
Midnight to 2:59 a.m.	216	6.5	317	11.1	533	8.6
3 a.m. to 5:59 a.m.	121	3.6	110	3.8	231	3.7
6 a.m. to 8:59 a.m.	290	8.7	81	2.8	371	6.0
9 a.m. to 11:59 a.m.	311	9.3	202	7.0	513	8.3
Noon to 2:59 p.m.	538	16.1	405	14.1	943	15.2
3 p.m. to 5:59 p.m.	794	23.7	495	17.3	1,289	20.7
6 p.m. to 8:59 p.m.	626	18.7	740	25.8	1,366	22.0
9 p.m. to 11:59 p.m.	431	12.9	499	17.4	930	15.0
Unknown	18	0.5	17	0.6	42	0.7
Total	3,345	100.0	2,866	100.0	6,218	100.0
Motorcyclists Injured						
Midnight to 2:59 a.m.	1,588	3.2	2,959	8.8	4,547	5.5
3 a.m. to 5:59 a.m.	1,324	2.7	833	2.5	2,158	2.6
6 a.m. to 8:59 a.m.	5,430	11.0	912	2.7	6,343	7.7
9 a.m. to 11:59 a.m.	4,792	9.7	3,526	10.5	8,319	10.1
Noon to 2:59 p.m.	10,272	20.9	6,528	19.5	16,800	20.3
3 p.m. to 5:59 p.m.	14,304	29.1	6,642	19.8	20,946	25.3
6 p.m. to 8:59 p.m.	7,345	14.9	7,610	22.7	14,955	18.1
9 p.m. to 11:59 p.m.	4,113	8.4	4,505	13.4	8,619	10.4
Total**	49,170	100.0	33,517	100.0	82,687	100.0

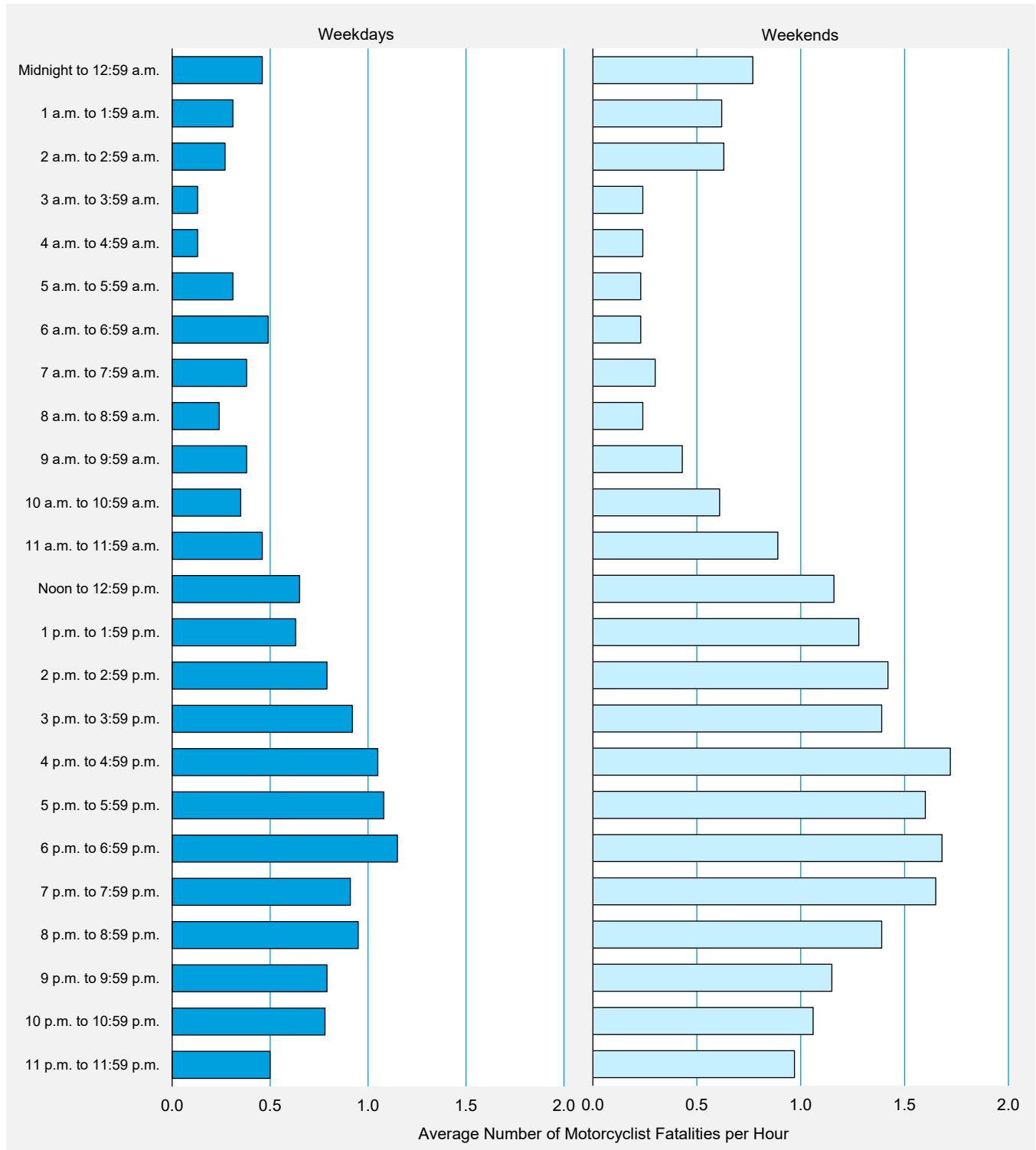
*Includes motorcyclists killed on unknown day of week.

**Includes motorcyclists injured in fatal crashes from FARS with unknown time of day.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Figure 26. Average Number of Motorcyclists Killed per Hour, by Time of Day and Day of Week



Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 92. Motorcyclists Killed, by Person Type and Helmet Use

Person Type	Helmet Use						Total	
	Used		Not Used		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Riders	3,629	61.2	2,091	35.2	214	3.6	5,934	100.0
Passengers	118	41.5	153	53.9	13	4.6	284	100.0
Total	3,747	60.3	2,244	36.1	227	3.7	6,218	100.0

Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

Table 93. Motorcycle Riders Involved in Fatal Crashes, by Age Group and License Compliance

Age Group	License Compliance					Total
	Not Licensed	No Motorcycle License Required	No Valid Motorcycle License	Valid Motorcycle License	Unknown	
<15	14	1	0	0	0	15
15-20	58	6	106	180	8	358
21-24	37	4	223	314	5	583
25-34	129	12	543	812	13	1,509
35-44	77	7	383	680	13	1,160
45-54	53	5	293	735	10	1,096
55-64	34	6	208	715	6	969
65-74	7	4	73	431	7	522
>74	3	0	9	115	0	127
Unknown	0	0	1	1	8	10
Total	412	45	1,839	3,983	70	6,349

Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 94. Pedestrians Killed in School-Bus-Related Crashes, by Age Group and Striking Vehicle

Age Group	Vehicle Type		Total
	Bus	Other Vehicle	
<5	1	0	1
5-9	2	0	2
10-14	1	1	2
15-18	1	1	2
>18	5	1	6
Total	10	3	13

Table 95. People Killed and Injured in School-Bus-Related Crashes, by Person Type

Person Type	Killed		Injured	
	Number	Percent	Number	Percent
School Bus Drivers	4	3.8	877	7.0
School Bus Passengers	8	7.7	5,950	47.6
Pedestrians	13	12.5	478	3.8
Pedalcyclists	2	1.9	164	1.3
Occupants of Other Vehicle	76	73.1	5,021	40.2
Other Nonoccupants	1	1.0	13	0.1
Total	104	100.0	12,502	100.0

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, pedalcyclists include people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 96. Pedestrians Killed and Injured, by Age Group and Location

Age Group	Location						Total**	
	At Intersection		Not At Intersection		Other*			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pedestrians Killed								
<5	8	12.1	43	65.2	14	21.2	66	100.0
5-9	8	15.7	34	66.7	9	17.6	51	100.0
10-14	13	18.3	39	54.9	18	25.4	71	100.0
15-20	43	15.5	189	68.2	39	14.1	277	100.0
21-24	40	11.3	259	73.2	48	13.6	354	100.0
25-34	108	8.5	1,026	80.3	124	9.7	1,277	100.0
35-44	168	12.4	1,050	77.7	115	8.5	1,351	100.0
45-54	180	16.0	820	72.8	108	9.6	1,126	100.0
55-64	217	16.1	1,012	74.9	99	7.3	1,351	100.0
65-74	204	22.6	622	69.0	69	7.6	902	100.0
>74	162	27.2	375	63.0	49	8.2	595	100.0
Unknown	15	14.9	78	77.2	3	3.0	101	100.0
Total	1,166	15.5	5,547	73.7	695	9.2	7,522	100.0
Pedestrians Injured								
<5	96	11.3	661	77.7	93	10.9	850	100.0
5-9	405	18.0	1,611	71.6	164	7.3	2,250	100.0
10-14	1,918	49.9	1,547	40.2	381	9.9	3,846	100.0
15-20	2,566	43.2	2,622	44.1	757	12.7	5,946	100.0
21-24	2,527	52.8	1,965	41.1	175	3.7	4,786	100.0
25-34	3,919	33.2	6,050	51.3	1,611	13.7	11,796	100.0
35-44	3,913	39.1	4,671	46.7	1,331	13.3	10,006	100.0
45-54	3,489	36.6	4,469	46.9	1,470	15.4	9,526	100.0
55-64	3,273	37.0	4,268	48.2	1,095	12.4	8,854	100.0
65-74	3,362	52.5	2,265	35.4	664	10.4	6,398	100.0
>74	1,674	54.6	995	32.5	372	12.1	3,065	100.0
Total***	27,144	40.3	31,131	46.2	8,117	12.1	67,336	100.0

*Includes sidewalk, bicycle lane, median/crossing island, parking lane/zone, shoulder/roadside, driveway access, shared-use path, and non-traffic area, which may or may not have been at intersection, but were not distinguished by collected data. Thus, "At Intersection" and "Not At Intersection" do not include those in the "Other" category that were at intersection or not at intersection.

**Includes pedestrians killed and injured at unknown locations.

***Includes pedestrians injured in fatal crashes from FARS with unknown age.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 97. Pedestrians Killed and Injured and Fatality and Injury Rates per 100,000 Population, by Age Group and Sex

Age Group	Male			Female			Total*		
	Killed	Population	Rate	Killed	Population	Rate	Killed	Population	Rate
<5	35	9,475,095	0.37	31	9,063,258	0.34	66	18,538,353	0.36
5-9	33	10,231,946	0.32	18	9,777,249	0.18	51	20,009,195	0.25
10-14	39	10,701,853	0.36	32	10,187,986	0.31	71	20,889,839	0.34
15-20	166	13,340,726	1.24	111	12,733,072	0.87	277	26,073,798	1.06
21-24	243	9,343,305	2.60	110	8,924,468	1.23	354	18,267,773	1.94
25-34	880	23,189,562	3.79	393	22,311,738	1.76	1,277	45,501,300	2.81
35-44	986	22,120,189	4.46	364	21,575,176	1.69	1,351	43,695,365	3.09
45-54	809	20,279,630	3.99	314	20,152,015	1.56	1,126	40,431,645	2.78
55-64	1,009	20,671,903	4.88	335	21,413,534	1.56	1,351	42,085,437	3.21
65-74	637	15,910,672	4.00	263	17,877,767	1.47	902	33,788,439	2.67
>74	393	10,018,672	3.92	198	13,987,741	1.42	595	24,006,413	2.48
Unknown	44	**	**	24	**	**	101	**	**
Total	5,274	165,283,553	3.19	2,193	168,004,004	1.31	7,522	333,287,557	2.26

Age Group	Male			Female			Total*		
	Injured	Population	Rate	Injured	Population	Rate	Injured	Population	Rate
<5	615	9,475,095	6	235	9,063,258	3	850	18,538,353	5
5-9	1,524	10,231,946	15	726	9,777,249	7	2,250	20,009,195	11
10-14	1,949	10,701,853	18	1,896	10,187,986	19	3,846	20,889,839	18
15-20	3,127	13,340,726	23	2,820	12,733,072	22	5,946	26,073,798	23
21-24	2,676	9,343,305	29	2,110	8,924,468	24	4,786	18,267,773	26
25-34	7,327	23,189,562	32	4,467	22,311,738	20	11,796	45,501,300	26
35-44	6,204	22,120,189	28	3,801	21,575,176	18	10,006	43,695,365	23
45-54	5,726	20,279,630	28	3,799	20,152,015	19	9,526	40,431,645	24
55-64	5,117	20,671,903	25	3,737	21,413,534	17	8,854	42,085,437	21
65-74	3,350	15,910,672	21	3,049	17,877,767	17	6,398	33,788,439	19
>74	1,692	10,018,672	17	1,373	13,987,741	10	3,065	24,006,413	13
Total***	39,310	165,283,553	24	28,018	168,004,004	17	67,336	333,287,557	20

Source: Population—Census Bureau

*Includes pedestrians killed and injured of unknown sex.

**Not applicable.

***Includes pedestrians injured in fatal crashes from FARS with unknown age.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Table 98. Pedestrians Killed and Injured, by Time of Day and Day of Week

Time of Day	Day of Week				Total*	
	Weekday		Weekend			
	Number	Percent	Number	Percent	Number	Percent
Pedestrians Killed						
Midnight to 2:59 a.m.	428	10.0	650	20.2	1,078	14.3
3 a.m. to 5:59 a.m.	424	9.9	398	12.4	822	10.9
6 a.m. to 8:59 a.m.	533	12.4	102	3.2	635	8.4
9 a.m. to 11:59 a.m.	218	5.1	69	2.1	287	3.8
Noon to 2:59 p.m.	232	5.4	86	2.7	318	4.2
3 p.m. to 5:59 p.m.	426	9.9	129	4.0	555	7.4
6 p.m. to 8:59 p.m.	1,077	25.1	869	27.0	1,946	25.9
9 p.m. to 11:59 p.m.	944	22.0	898	27.9	1,842	24.5
Unknown	12	0.3	14	0.4	39	0.5
Total	4,294	100.0	3,215	100.0	7,522	100.0
Pedestrians Injured						
Midnight to 2:59 a.m.	1,403	3.1	2,276	10.3	3,679	5.5
3 a.m. to 5:59 a.m.	1,183	2.6	1,042	4.7	2,224	3.3
6 a.m. to 8:59 a.m.	6,818	15.1	638	2.9	7,457	11.1
9 a.m. to 11:59 a.m.	5,835	12.9	1,841	8.3	7,676	11.4
Noon to 2:59 p.m.	7,001	15.5	1,641	7.4	8,643	12.8
3 p.m. to 5:59 p.m.	10,454	23.2	3,037	13.7	13,491	20.0
6 p.m. to 8:59 p.m.	8,642	19.1	6,721	30.3	15,363	22.8
9 p.m. to 11:59 p.m.	3,803	8.4	4,999	22.5	8,803	13.1
Total**	45,140	100.0	22,196	100.0	67,336	100.0

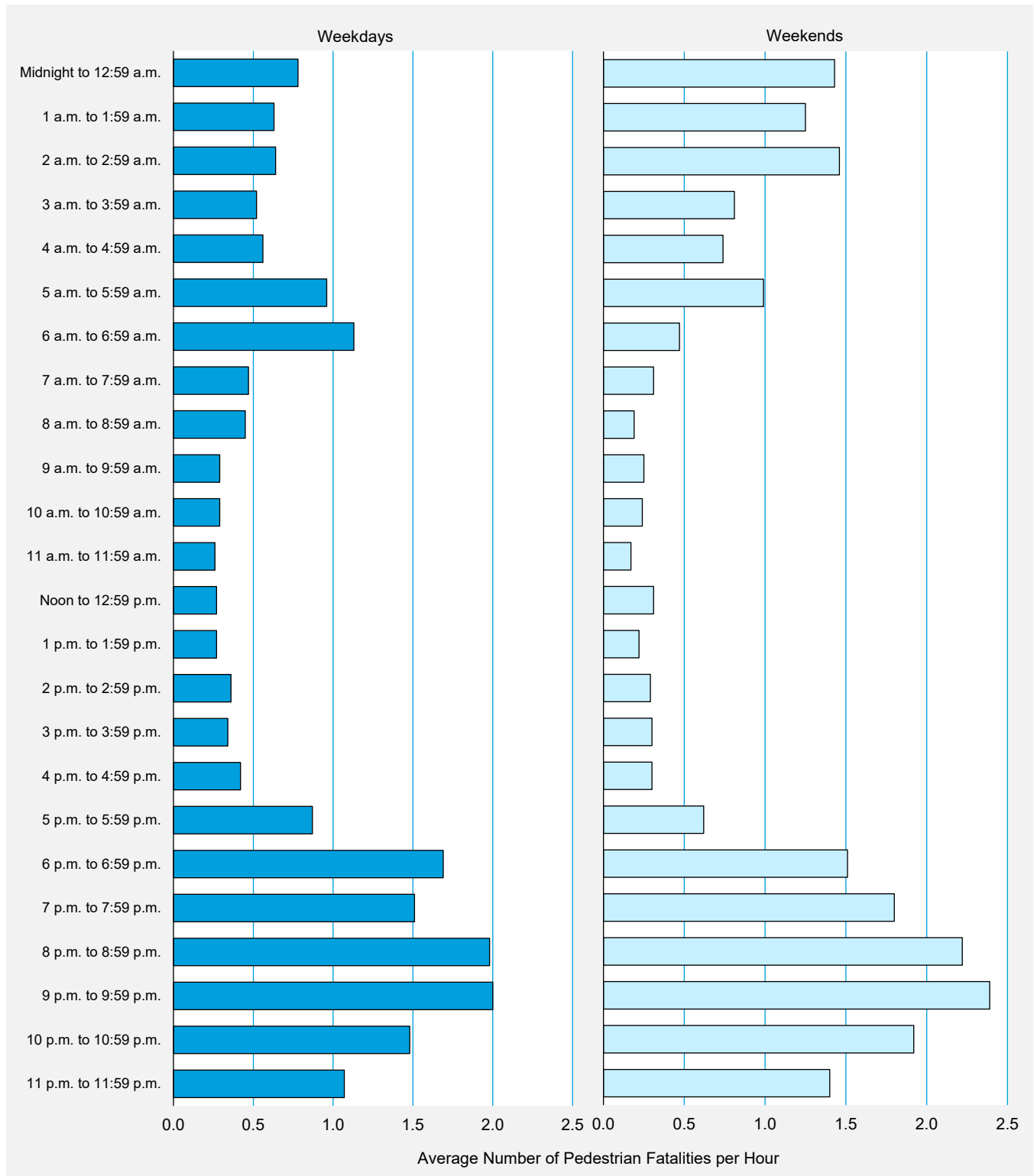
*Includes pedestrians killed at unknown time of day and day of week.

**Includes pedestrians injured in fatal crashes from FARS with unknown time of day.

Note: Totals may not equal sum of components due to independent rounding.

4. People

Figure 27. Average Number of Pedestrians Killed per Hour, by Time of Day and Day of Week



4. People

Table 99. Pedestrians Killed and Injured in Single-Vehicle Crashes, by Vehicle Type and Initial Point of Impact

Vehicle Type	Initial Point of Impact										Total	
	Front		Right Side		Left Side		Rear		Other/Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pedestrians Killed												
Passenger Car	1,999	91.0	39	1.8	28	1.3	12	0.5	118	5.4	2,196	100.0
Light Truck	2,665	90.5	65	2.2	35	1.2	27	0.9	153	5.2	2,945	100.0
Large Truck	291	74.6	32	8.2	11	2.8	13	3.3	43	11.0	390	100.0
Bus	29	70.7	2	4.9	1	2.4	2	4.9	7	17.1	41	100.0
Other/Unknown	429	51.3	7	0.8	5	0.6	5	0.6	390	46.7	836	100.0
Total	5,413	84.5	145	2.3	80	1.2	59	0.9	711	11.1	6,408	100.0
Pedestrians Injured												
Passenger Car	16,385	84.8	1,573	8.1	784	4.1	485	2.5	91	0.5	19,318	100.0
Light Truck	16,678	76.6	1,874	8.6	1,346	6.2	1,498	6.9	388	1.8	21,783	100.0
Large Truck	824	67.7	190	15.6	45	3.7	158	12.9	0	0.0	1,217	100.0
Bus	416	58.8	172	24.3	47	6.7	73	10.3	0	0.0	707	100.0
Other/Unknown	15,744	79.9	1,591	8.1	1,151	5.8	1,083	5.5	132	0.7	19,701	100.0
Total	50,046	79.8	5,400	8.6	3,373	5.4	3,296	5.3	612	1.0	62,727	100.0

Notes: Only includes crashes where the first harmful event was a collision with a pedestrian. Totals may not equal sum of components due to independent rounding.

Table 100. Pedestrians Killed, by Related Factors

Factors	Number	Percent
Failure to yield right-of-way	3,973	52.8
Improper crossing of roadway or intersection	1,570	20.9
In roadway improperly (standing, lying, working, playing).....	854	11.4
Not visible (dark clothing, no lighting, etc.).....	845	11.2
Under the influence of alcohol, drugs, or medication	697	9.3
Darting or running into road.....	650	8.6
Wrong-way walking	621	8.3
Traveling on prohibited trafficway.....	265	3.5
Distracted (phone, talking, eating, object, etc.)	257	3.4
Failure to obey traffic signs, signals, or officer	234	3.1
Physical impairment	163	2.2
Entering/exiting parked or stopped vehicle	49	0.7
Emotional (e.g., depression, angry, disturbed).....	41	0.5
Vision obscured (by rain, snow, parked vehicle, sign, etc.).....	19	0.3
Ill, blackout.....	13	0.2
Asleep or fatigued	10	0.1
Non-motorist pushing vehicle	7	0.1
Other factors.....	249	3.3
None reported.....	114	1.5
Unknown.....	1,451	19.3
Total Pedestrians	7,522	100.0

Note: The sum of the numbers and percentages is greater than total pedestrians killed as more than one factor may be present for the same pedestrian.

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Table 101. Pedalcyclists Killed and Injured, by Age Group and Location

Age Group	Location						Total**	
	At Intersection		Not At Intersection		Other*			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pedalcyclists Killed								
<5	0	0.0	5	100.0	0	0.0	5	100.0
5-9	6	42.9	5	35.7	2	14.3	14	100.0
10-14	23	62.2	8	21.6	5	13.5	37	100.0
15-20	12	26.1	26	56.5	7	15.2	46	100.0
21-24	12	36.4	17	51.5	4	12.1	33	100.0
25-34	36	25.9	88	63.3	13	9.4	139	100.0
35-44	45	25.9	109	62.6	19	10.9	174	100.0
45-54	38	21.5	108	61.0	27	15.3	177	100.0
55-64	60	23.7	161	63.6	30	11.9	253	100.0
65-74	47	32.0	77	52.4	23	15.6	147	100.0
>74	26	44.1	29	49.2	4	6.8	59	100.0
Unknown	9	42.9	10	47.6	2	9.5	21	100.0
Total	314	28.4	643	58.2	136	12.3	1,105	100.0
Pedalcyclists Injured								
<5	106	68.7	48	31.3	0	0.0	154	100.0
5-9	869	65.9	429	32.5	21	1.6	1,319	100.0
10-14	3,851	71.5	1,082	20.1	451	8.4	5,385	100.0
15-20	4,968	64.6	1,857	24.2	865	11.2	7,690	100.0
21-24	1,684	57.5	872	29.8	374	12.8	2,930	100.0
25-34	4,451	56.6	2,274	28.9	1,120	14.2	7,871	100.0
35-44	3,554	56.0	1,846	29.1	920	14.5	6,346	100.0
45-54	3,044	57.7	1,635	31.0	599	11.4	5,278	100.0
55-64	2,885	57.4	1,381	27.5	737	14.7	5,025	100.0
65-74	1,698	55.0	831	26.9	561	18.2	3,090	100.0
>74	744	67.2	264	23.8	100	9.0	1,108	100.0
Total***	27,853	60.3	12,520	27.1	5,749	12.4	46,195	100.0

*Includes sidewalk, bicycle lane, median/crossing island, parking lane/zone, shoulder/roadside, driveway access, shared-use path, and non-traffic area, which may or may not have been at intersection, but were not distinguished by collected data. Thus, "At Intersection" and "Not At Intersection" do not include those in the "Other" category that were at intersection or not at intersection.

**Includes pedalcyclists killed and injured at unknown locations.

***Includes pedalcyclists injured in fatal crashes from FARS with unknown age.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, pedalcyclists include people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 102. Pedalcyclists Killed and Injured and Fatality and Injury Rates per 100,000 Population, by Age Group and Sex

Age Group	Male			Female			Total*		
	Killed	Population	Rate	Killed	Population	Rate	Killed	Population	Rate
<5	2	9,475,095	0.02	3	9,063,258	0.03	5	18,538,353	0.03
5-9	12	10,231,946	0.12	2	9,777,249	0.02	14	20,009,195	0.07
10-14	31	10,701,853	0.29	6	10,187,986	0.06	37	20,889,839	0.18
15-20	41	13,340,726	0.31	4	12,733,072	0.03	46	26,073,798	0.18
21-24	29	9,343,305	0.31	4	8,924,468	0.04	33	18,267,773	0.18
25-34	114	23,189,562	0.49	25	22,311,738	0.11	139	45,501,300	0.31
35-44	140	22,120,189	0.63	33	21,575,176	0.15	174	43,695,365	0.40
45-54	150	20,279,630	0.74	27	20,152,015	0.13	177	40,431,645	0.44
55-64	229	20,671,903	1.11	23	21,413,534	0.11	253	42,085,437	0.60
65-74	132	15,910,672	0.83	15	17,877,767	0.08	147	33,788,439	0.44
>74	52	10,018,672	0.52	4	13,987,741	0.03	59	24,006,413	0.25
Unknown	14	**	**	0	**	**	21	**	**
Total	946	165,283,553	0.57	146	168,004,004	0.09	1,105	333,287,557	0.33

Age Group	Male			Female			Total*		
	Injured	Population	Rate	Injured	Population	Rate	Injured	Population	Rate
<5	131	9,475,095	1	22	9,063,258	0	154	18,538,353	1
5-9	976	10,231,946	10	344	9,777,249	4	1,319	20,009,195	7
10-14	4,649	10,701,853	43	696	10,187,986	7	5,385	20,889,839	26
15-20	6,143	13,340,726	46	1,547	12,733,072	12	7,690	26,073,798	29
21-24	2,136	9,343,305	23	794	8,924,468	9	2,930	18,267,773	16
25-34	6,226	23,189,562	27	1,645	22,311,738	7	7,871	45,501,300	17
35-44	5,254	22,120,189	24	1,092	21,575,176	5	6,346	43,695,365	15
45-54	4,447	20,279,630	22	831	20,152,015	4	5,278	40,431,645	13
55-64	4,078	20,671,903	20	947	21,413,534	4	5,025	42,085,437	12
65-74	2,681	15,910,672	17	409	17,877,767	2	3,090	33,788,439	9
>74	1,064	10,018,672	11	43	13,987,741	0	1,108	24,006,413	5
Total***	37,787	165,283,553	23	8,369	168,004,004	5	46,195	333,287,557	14

Source: Population—Census Bureau

*Includes pedalcyclists killed and injured of unknown sex.

**Not applicable.

***Includes pedalcyclists injured in fatal crashes from FARS with unknown age.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, pedalcyclists include people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 103. Pedalcyclists Killed and Injured, by Time of Day and Day of Week

Time of Day	Day of Week				Total*	
	Weekday		Weekend			
	Number	Percent	Number	Percent	Number	Percent
Pedalcyclists Killed						
Midnight to 2:59 a.m.	38	5.5	51	12.5	89	8.1
3 a.m. to 5:59 a.m.	51	7.3	35	8.6	86	7.8
6 a.m. to 8:59 a.m.	97	14.0	21	5.1	118	10.7
9 a.m. to 11:59 a.m.	67	9.6	36	8.8	103	9.3
Noon to 2:59 p.m.	74	10.6	28	6.9	102	9.2
3 p.m. to 5:59 p.m.	140	20.1	43	10.5	183	16.6
6 p.m. to 8:59 p.m.	132	19.0	95	23.3	227	20.5
9 p.m. to 11:59 p.m.	95	13.7	99	24.3	194	17.6
Unknown	1	0.1	0	0.0	3	0.3
Total	695	100.0	408	100.0	1,105	100.0
Pedalcyclists Injured						
Midnight to 2:59 a.m.	541	1.6	471	4.1	1,011	2.2
3 a.m. to 5:59 a.m.	524	1.5	205	1.8	729	1.6
6 a.m. to 8:59 a.m.	5,701	16.4	540	4.7	6,240	13.5
9 a.m. to 11:59 a.m.	4,541	13.1	1,407	12.2	5,948	12.9
Noon to 2:59 p.m.	5,962	17.2	1,763	15.3	7,725	16.7
3 p.m. to 5:59 p.m.	10,417	30.0	2,475	21.5	12,891	27.9
6 p.m. to 8:59 p.m.	5,289	15.2	2,971	25.8	8,260	17.9
9 p.m. to 11:59 p.m.	1,717	4.9	1,673	14.5	3,390	7.3
Total	34,690	100.0	11,505	100.0	46,195	100.0

*Includes pedalcyclists killed of unknown day of week.

Notes: Totals may not equal sum of components due to independent rounding. Starting in 2022, pedalcyclists include people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 104. Pedalcyclists Killed and Injured in Single-Vehicle Crashes, by Vehicle Type and Initial Point of Impact

Vehicle Type	Initial Point of Impact										Total	
	Front		Right Side		Left Side		Rear		Other/Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pedalcyclists Killed												
Passenger Car	284	88.8	16	5.0	6	1.9	2	0.6	12	3.8	320	100.0
Light Truck	439	88.0	25	5.0	14	2.8	3	0.6	18	3.6	499	100.0
Large Truck	58	54.2	16	15.0	8	7.5	9	8.4	16	15.0	107	100.0
Bus	2	40.0	2	40.0	0	0.0	0	0.0	1	20.0	5	100.0
Other/Unknown	70	67.3	5	4.8	0	0.0	0	0.0	29	27.9	104	100.0
Total	853	82.4	64	6.2	28	2.7	14	1.4	76	7.3	1,035	100.0
Pedalcyclists Injured												
Passenger Car	10,794	75.7	1,948	13.7	983	6.9	510	3.6	21	0.1	14,256	100.0
Light Truck	12,461	76.1	2,183	13.3	1,106	6.8	517	3.2	103	0.6	16,370	100.0
Large Truck	281	42.2	315	47.3	0	0.0	70	10.5	0	0.0	666	100.0
Bus	192	51.9	108	29.2	26	6.9	44	12.0	0	0.0	371	100.0
Other/Unknown	9,974	70.5	2,378	16.8	1,001	7.1	711	5.0	90	0.6	14,153	100.0
Total	33,702	73.6	6,933	15.1	3,115	6.8	1,853	4.0	214	0.5	45,816	100.0

Notes: Only includes crashes where the first harmful event was a collision with a pedalcyclist. Totals may not equal sum of components due to independent rounding. Starting in 2022, pedalcyclists include people on motorized bicycles. For more details, see page 6 of this report.

4. People

Table 105. Pedalcyclists Killed, by Related Factors

Factors	Number	Percent
Failure to yield right-of-way	310	28.1
Not visible (dark clothing, no lighting, etc.).....	131	11.9
Wrong-way riding.....	129	11.7
Failure to obey traffic signs, signals, or officer	114	10.3
Under the influence of alcohol, drugs, or medication	68	6.2
Making improper turn	63	5.7
Operating without required equipment	47	4.3
Riding on wrong side of the road.....	43	3.9
Failing to have lights on when required	29	2.6
Distracted (phone, talking, eating, object, etc.)	28	2.5
Improper lane usage.....	19	1.7
Improper or erratic lane changing	15	1.4
Physical impairment	14	1.3
Making improper entry or exit from trafficway	12	1.1
Traveling on prohibited trafficways	11	1.0
Vision obscured (by reflected glare, parked vehicle, sign, etc.)	9	0.8
Improper passing.....	7	0.6
Erratic, reckless, careless, or negligent operation.....	7	0.6
Darting into road	4	0.4
In roadway improperly (standing, lying, working, playing).....	3	0.3
Ill, blackout.....	2	0.2
Emotional (e.g., depression, angry, disturbed).....	2	0.2
Passing with insufficient distance	1	0.1
Other factors.....	33	3.0
None reported.....	33	3.0
Unknown.....	374	33.8
Total Pedalcyclists	1,105	100.0

Notes: The sums of the numbers and percentages are greater than total pedalcyclists killed as more than one factor may be present for the same pedalcyclist. Starting in 2022, pedalcyclists include people on motorized bicycles. For more details, see page 6 of this report.

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States

5. States

Fatal traffic crash and traffic fatality statistics for each of the 50 States, the District of Columbia, and Puerto Rico are presented in this chapter. Several tables display State fatality rates based on population, licensed drivers, and registered vehicles. The last page describes the States' occupant restraint and motorcycle helmet laws. Below are some of the State statistics you will find in this chapter.

- Traffic fatalities decreased by 2 percent from 2021 to 2022 for the Nation as a whole. Twenty-nine States showed decreases, ranging from 1 percent to as much as 22 percent.
- About 2.6 percent of all traffic crash fatalities in 2022 were pedalcyclists. Nebraska and Rhode Island reported no pedalcyclists killed.
- The pedestrian fatality rate per 100,000 population was 2.26 for the Nation. New Mexico had the highest rate (4.40), and Iowa had the lowest rate (0.50).
- In 2022 there were 34 States, the District of Columbia, and Puerto Rico that had primary seat belt laws in effect and 15 States had secondary seat belt laws. Only one State (New Hampshire) has no seat belt law for adults.
- All 50 States, the District of Columbia, and Puerto Rico have laws requiring children of certain ages to be restrained in child safety seats.
- Motorcycle helmets were required for all riders in 18 States, the District of Columbia, and Puerto Rico in 2022. Twenty-nine States had helmet requirements with exceptions (age, rider type, roadway type), and 3 States (Illinois, Iowa, and New Hampshire) did not require helmets at all.
- In 2022 it was a criminal offense to operate a motor vehicle at a BAC of .08 g/dL or above in all 50 States, the District of Columbia, and Puerto Rico. Note: Utah set a lower threshold of .05 g/dL or higher that went into effect on December 30, 2018.

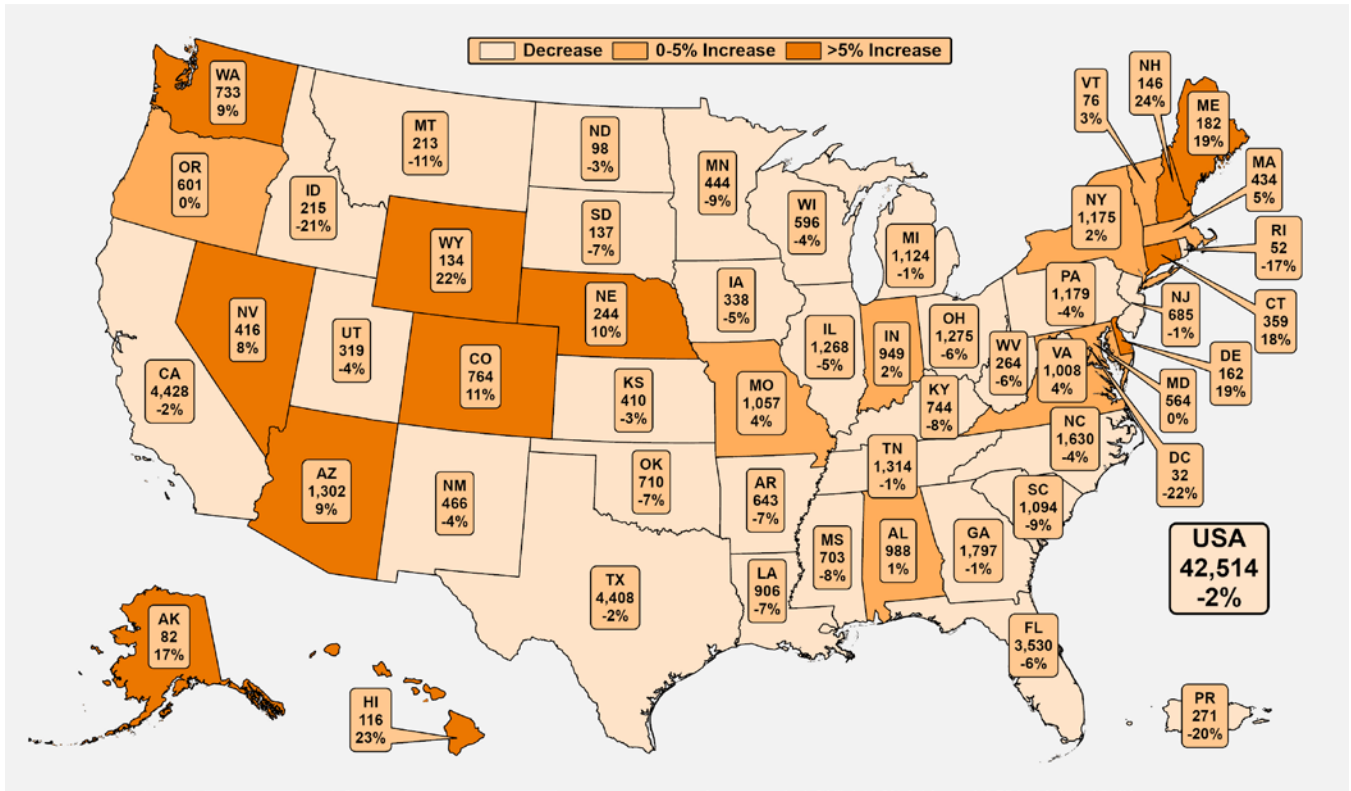
5. States

Table 106. Traffic Fatalities, by State and Percentage Change, 2021-2022

State	Fatalities			State	Fatalities		
	2021	2022	Percentage Change		2021	2022	Percentage Change
AL	983	988	+1	NE	221	244	+10
AK	70	82	+17	NV	385	416	+8
AZ	1,192	1,302	+9	NH	118	146	+24
AR	692	643	-7	NJ	692	685	-1
CA	4,513	4,428	-2	NM	483	466	-4
CO	691	764	+11	NY	1,156	1,175	+2
CT	303	359	+18	NC	1,693	1,630	-4
DE	136	162	+19	ND	101	98	-3
DC	41	32	-22	OH	1,354	1,275	-6
FL	3,741	3,530	-6	OK	762	710	-7
GA	1,809	1,797	-1	OR	599	601	+0
HI	94	116	+23	PA	1,230	1,179	-4
ID	273	215	-21	RI	63	52	-17
IL	1,334	1,268	-5	SC	1,198	1,094	-9
IN	932	949	+2	SD	148	137	-7
IA	356	338	-5	TN	1,327	1,314	-1
KS	423	410	-3	TX	4,500	4,408	-2
KY	806	744	-8	UT	332	319	-4
LA	971	906	-7	VT	74	76	+3
ME	153	182	+19	VA	973	1,008	+4
MD	563	564	+0	WA	674	733	+9
MA	413	434	+5	WV	282	264	-6
MI	1,137	1,124	-1	WI	620	596	-4
MN	488	444	-9	WY	110	134	+22
MS	766	703	-8	USA	43,230	42,514	-2
MO	1,016	1,057	+4	PR	337	271	-20
MT	239	213	-11				

5. States

Figure 28. Traffic Fatalities, by State and Percentage Change, 2021-2022



5. States

Table 107. Fatal Crashes, by State and First Harmful Event

State	First Harmful Event												Total Fatal Crashes*	
	Collision With								Non-Collision					
	Motor Vehicle In-Transport		Nonoccupant		Fixed Object		Object Not Fixed		Overturn		Other			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
AL	365	40.0	117	12.8	346	37.9	28	3.1	52	5.7	5	0.5	913	100.0
AK	33	44.0	15	20.0	15	20.0	5	6.7	6	8.0	1	1.3	75	100.0
AZ	464	39.2	336	28.4	184	15.6	28	2.4	101	8.5	6	0.5	1,183	100.0
AR	243	41.7	82	14.1	193	33.1	10	1.7	48	8.2	6	1.0	583	100.0
CA	1,393	33.9	1,290	31.4	1,013	24.7	127	3.1	249	6.1	34	0.8	4,109	100.0
CO	274	39.2	121	17.3	177	25.3	19	2.7	104	14.9	4	0.6	699	100.0
CT	131	40.3	65	20.0	105	32.3	5	1.5	17	5.2	2	0.6	325	100.0
DE	68	47.6	34	23.8	30	21.0	5	3.5	5	3.5	1	0.7	143	100.0
DC	9	32.1	16	57.1	1	3.6	1	3.6	0	0.0	1	3.6	28	100.0
FL	1,374	41.7	951	28.8	711	21.6	71	2.2	162	4.9	28	0.8	3,298	100.0
GA	632	37.7	355	21.2	530	31.6	31	1.8	104	6.2	26	1.5	1,678	100.0
HI	39	35.1	35	31.5	23	20.7	4	3.6	5	4.5	5	4.5	111	100.0
ID	86	44.3	18	9.3	47	24.2	3	1.5	36	18.6	4	2.1	194	100.0
IL	505	44.0	217	18.9	319	27.8	37	3.2	46	4.0	22	1.9	1,147	100.0
IN	402	45.5	129	14.6	255	28.8	32	3.6	59	6.7	7	0.8	884	100.0
IA	135	44.0	21	6.8	106	34.5	12	3.9	28	9.1	5	1.6	307	100.0
KS	144	39.6	38	10.4	115	31.6	14	3.8	48	13.2	4	1.1	364	100.0
KY	270	39.0	103	14.9	249	35.9	18	2.6	47	6.8	6	0.9	693	100.0
LA	309	36.3	210	24.6	259	30.4	25	2.9	33	3.9	14	1.6	852	100.0
ME	63	36.8	21	12.3	65	38.0	1	0.6	18	10.5	3	1.8	171	100.0
MD	206	38.7	137	25.8	159	29.9	16	3.0	10	1.9	4	0.8	532	100.0
MA	133	32.3	102	24.8	140	34.0	14	3.4	16	3.9	7	1.7	412	100.0
MI	448	42.5	196	18.6	287	27.2	31	2.9	77	7.3	15	1.4	1,054	100.0
MN	191	45.7	49	11.7	105	25.1	16	3.8	55	13.2	1	0.2	418	100.0
MS	245	37.9	96	14.9	241	37.3	15	2.3	45	7.0	4	0.6	646	100.0
MO	389	40.4	134	13.9	289	30.0	26	2.7	111	11.5	13	1.4	962	100.0
MT	54	29.3	17	9.2	64	34.8	5	2.7	42	22.8	2	1.1	184	100.0

5. States

Table 107. Fatal Crashes, by State and First Harmful Event (Continued)

State	First Harmful Event												Total Fatal Crashes*	
	Collision With								Non-Collision					
	Motor Vehicle In-Transport		Nonoccupant		Fixed Object		Object Not Fixed		Overturn		Other			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
NE	119	55.6	21	9.8	32	15.0	9	4.2	31	14.5	2	0.9	214	100.0
NV	124	32.4	97	25.3	111	29.0	11	2.9	38	9.9	2	0.5	383	100.0
NH	52	38.0	19	13.9	53	38.7	1	0.7	11	8.0	1	0.7	137	100.0
NJ	256	39.9	186	29.0	161	25.1	13	2.0	20	3.1	6	0.9	642	100.0
NM	164	39.1	95	22.7	69	16.5	13	3.1	73	17.4	4	1.0	419	100.0
NY	366	33.1	342	31.0	327	29.6	30	2.7	31	2.8	8	0.7	1,105	100.0
NC	595	39.7	269	17.9	548	36.5	18	1.2	67	4.5	3	0.2	1,500	100.0
ND	51	53.1	6	6.3	10	10.4	3	3.1	21	21.9	5	5.2	96	100.0
OH	500	42.4	153	13.0	419	35.5	44	3.7	52	4.4	11	0.9	1,180	100.0
OK	267	41.5	103	16.0	166	25.8	27	4.2	67	10.4	6	0.9	643	100.0
OR	212	38.3	130	23.5	179	32.4	6	1.1	17	3.1	7	1.3	553	100.0
PA	449	41.1	183	16.8	339	31.0	43	3.9	59	5.4	19	1.7	1,092	100.0
RI	14	27.5	7	13.7	25	49.0	2	3.9	3	5.9	0	0.0	51	100.0
SC	397	39.0	190	18.6	356	34.9	23	2.3	48	4.7	5	0.5	1,019	100.0
SD	51	42.1	16	13.2	21	17.4	4	3.3	27	22.3	2	1.7	121	100.0
TN	475	39.1	210	17.3	410	33.7	38	3.1	66	5.4	16	1.3	1,215	100.0
TX	1,678	42.3	839	21.2	973	24.5	103	2.6	326	8.2	40	1.0	3,966	100.0
UT	105	35.5	61	20.6	64	21.6	12	4.1	46	15.5	8	2.7	296	100.0
VT	29	39.7	7	9.6	28	38.4	1	1.4	6	8.2	2	2.7	73	100.0
VA	335	35.4	170	18.0	368	38.9	21	2.2	40	4.2	11	1.2	946	100.0
WA	272	39.4	132	19.1	186	26.9	23	3.3	71	10.3	7	1.0	691	100.0
WV	85	34.3	22	8.9	107	43.1	11	4.4	22	8.9	1	0.4	248	100.0
WI	223	40.7	81	14.8	184	33.6	17	3.1	35	6.4	8	1.5	548	100.0
WY	37	31.4	7	5.9	33	28.0	4	3.4	34	28.8	3	2.5	118	100.0
USA	15,461	39.4	8,251	21.0	11,197	28.5	1,076	2.7	2,735	7.0	407	1.0	39,221	100.0
PR	87	33.6	75	29.0	79	30.5	7	2.7	1	0.4	10	3.9	259	100.0

*Includes fatal crashes where the most harmful event was unknown or there was a harmful event, but the details were not reported.

5. States

Table 108. Fatal Crashes, by State and Roadway Function Class

State	Roadway Function Class																Total Fatal Crashes	
	Principal Arterial								Minor Arterial	Collector	Local	Unknown						
	Interstate				Freeway and Expressway		Other											
	Rural		Urban															
No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
AL	58	6.4	66	7.2	3	0.3	223	24.4	220	24.1	251	27.5	90	9.9	2	0.2	913	100.0
AK	20	26.7	11	14.7	0	0.0	25	33.3	4	5.3	12	16.0	2	2.7	1	1.3	75	100.0
AZ	71	6.0	65	5.5	46	3.9	293	24.8	447	37.8	172	14.5	27	2.3	62	5.2	1,183	100.0
AR	39	6.7	51	8.7	10	1.7	173	29.7	142	24.4	102	17.5	62	10.6	4	0.7	583	100.0
CA	118	2.9	480	11.7	433	10.5	1,194	29.1	962	23.4	608	14.8	304	7.4	10	0.2	4,109	100.0
CO	52	7.4	59	8.4	40	5.7	264	37.8	127	18.2	94	13.4	61	8.7	2	0.3	699	100.0
CT	2	0.6	59	18.2	29	8.9	75	23.1	99	30.5	34	10.5	23	7.1	4	1.2	325	100.0
DE	1	0.7	14	9.8	4	2.8	55	38.5	17	11.9	35	24.5	17	11.9	0	0.0	143	100.0
DC	0	0.0	1	3.6	0	0.0	10	35.7	11	39.3	6	21.4	0	0.0	0	0.0	28	100.0
FL	68	2.1	228	6.9	102	3.1	1,320	40.0	650	19.7	544	16.5	377	11.4	9	0.3	3,298	100.0
GA	42	2.5	157	9.4	69	4.1	429	25.6	449	26.8	314	18.7	218	13.0	0	0.0	1,678	100.0
HI	0	0.0	4	3.6	0	0.0	72	64.9	32	28.8	2	1.8	0	0.0	1	0.9	111	100.0
ID	21	10.8	8	4.1	5	2.6	54	27.8	40	20.6	44	22.7	22	11.3	0	0.0	194	100.0
IL	44	3.8	128	11.2	12	1.0	324	28.2	289	25.2	202	17.6	140	12.2	8	0.7	1,147	100.0
IN	62	7.0	48	5.4	16	1.8	283	32.0	162	18.3	203	23.0	109	12.3	1	0.1	884	100.0
IA	23	7.5	15	4.9	0	0.0	89	29.0	50	16.3	87	28.3	41	13.4	2	0.7	307	100.0
KS	20	5.5	32	8.8	17	4.7	50	13.7	86	23.6	115	31.6	43	11.8	1	0.3	364	100.0
KY	38	5.5	32	4.6	10	1.4	158	22.8	158	22.8	170	24.5	126	18.2	1	0.1	693	100.0
LA	44	5.2	83	9.7	11	1.3	175	20.5	190	22.3	148	17.4	189	22.2	12	1.4	852	100.0
ME	9	5.3	5	2.9	0	0.0	36	21.1	29	17.0	59	34.5	31	18.1	2	1.2	171	100.0
MD	4	0.8	74	13.9	54	10.2	175	32.9	116	21.8	87	16.4	16	3.0	6	1.1	532	100.0
MA	1	0.2	66	16.0	30	7.3	119	28.9	109	26.5	44	10.7	39	9.5	4	1.0	412	100.0
MI	16	1.5	73	6.9	45	4.3	293	27.8	288	27.3	203	19.3	125	11.9	11	1.0	1,054	100.0
MN	13	3.1	30	7.2	19	4.5	77	18.4	139	33.3	93	22.2	44	10.5	3	0.7	418	100.0
MS	43	6.7	36	5.6	2	0.3	189	29.3	123	19.0	146	22.6	31	4.8	76	11.8	646	100.0
MO	52	5.4	94	9.8	58	6.0	226	23.5	207	21.5	204	21.2	59	6.1	62	6.4	962	100.0
MT	27	14.7	5	2.7	0	0.0	66	35.9	36	19.6	27	14.7	21	11.4	2	1.1	184	100.0

5. States

Table 108. Fatal Crashes, by State and Roadway Function Class (Continued)

State	Roadway Function Class																Total Fatal Crashes	
	Principal Arterial								Minor Arterial	Collector	Local	Unknown						
	Interstate				Freeway and Expressway		Other											
	Rural		Urban		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
NE	18	8.4	5	2.3	15	7.0	68	31.8	60	28.0	23	10.7	25	11.7	0	0.0	214	100.0
NV	33	8.6	20	5.2	6	1.6	111	29.0	129	33.7	52	13.6	32	8.4	0	0.0	383	100.0
NH	8	5.8	9	6.6	5	3.6	30	21.9	37	27.0	29	21.2	19	13.9	0	0.0	137	100.0
NJ	6	0.9	53	8.3	85	13.2	202	31.5	137	21.3	87	13.6	67	10.4	5	0.8	642	100.0
NM	64	15.3	30	7.2	2	0.5	156	37.2	57	13.6	73	17.4	37	8.8	0	0.0	419	100.0
NY	9	0.8	75	6.8	101	9.1	309	28.0	235	21.3	160	14.5	214	19.4	2	0.2	1,105	100.0
NC	70	4.7	71	4.7	82	5.5	292	19.5	301	20.1	381	25.4	302	20.1	1	0.1	1,500	100.0
ND	9	9.4	5	5.2	1	1.0	39	40.6	2	2.1	23	24.0	17	17.7	0	0.0	96	100.0
OH	52	4.4	100	8.5	30	2.5	243	20.6	261	22.1	319	27.0	168	14.2	7	0.6	1,180	100.0
OK	41	6.4	45	7.0	5	0.8	167	26.0	144	22.4	148	23.0	93	14.5	0	0.0	643	100.0
OR	25	4.5	21	3.8	2	0.4	226	40.9	128	23.1	120	21.7	31	5.6	0	0.0	553	100.0
PA	57	5.2	58	5.3	39	3.6	325	29.8	222	20.3	175	16.0	213	19.5	3	0.3	1,092	100.0
RI	2	3.9	8	15.7	6	11.8	19	37.3	6	11.8	7	13.7	2	3.9	1	2.0	51	100.0
SC	58	5.7	38	3.7	5	0.5	348	34.2	160	15.7	286	28.1	124	12.2	0	0.0	1,019	100.0
SD	13	10.7	4	3.3	4	3.3	31	25.6	22	18.2	29	24.0	18	14.9	0	0.0	121	100.0
TN	68	5.6	106	8.7	23	1.9	388	31.9	269	22.1	231	19.0	130	10.7	0	0.0	1,215	100.0
TX	162	4.1	433	10.9	245	6.2	1,175	29.6	828	20.9	858	21.6	253	6.4	12	0.3	3,966	100.0
UT	23	7.8	31	10.5	2	0.7	114	38.5	50	16.9	55	18.6	21	7.1	0	0.0	296	100.0
VT	7	9.6	2	2.7	0	0.0	13	17.8	21	28.8	19	26.0	11	15.1	0	0.0	73	100.0
VA	52	5.5	82	8.7	28	3.0	372	39.3	191	20.2	135	14.3	80	8.5	6	0.6	946	100.0
WA	28	4.1	57	8.2	61	8.8	206	29.8	162	23.4	134	19.4	37	5.4	6	0.9	691	100.0
WV	21	8.5	10	4.0	0	0.0	47	19.0	57	23.0	84	33.9	28	11.3	1	0.4	248	100.0
WI	22	4.0	35	6.4	20	3.6	153	27.9	140	25.5	123	22.4	54	9.9	1	0.2	548	100.0
WY	25	21.2	4	3.4	0	0.0	36	30.5	17	14.4	22	18.6	11	9.3	3	2.5	118	100.0
USA	1,761	4.5	3,226	8.2	1,782	4.5	11,517	29.4	8,818	22.5	7,579	19.3	4,204	10.7	334	0.9	39,221	100.0
PR	19	7.3	28	10.8	0	0.0	88	34.0	69	26.6	49	18.9	6	2.3	0	0.0	259	100.0

5. States

Table 109. People Killed, by State and Roadway Function Class

State	Roadway Function Class																Total Killed	
	Principal Arterial								Minor Arterial		Collector		Local		Unknown			
	Interstate				Freeway and Expressway		Other											
	Rural		Urban															
No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
AL	67	6.8	74	7.5	3	0.3	242	24.5	239	24.2	270	27.3	91	9.2	2	0.2	988	100.0
AK	21	25.6	13	15.9	0	0.0	26	31.7	4	4.9	14	17.1	2	2.4	2	2.4	82	100.0
AZ	95	7.3	72	5.5	52	4.0	325	25.0	481	36.9	181	13.9	28	2.2	68	5.2	1,302	100.0
AR	44	6.8	61	9.5	11	1.7	203	31.6	149	23.2	106	16.5	65	10.1	4	0.6	643	100.0
CA	136	3.1	513	11.6	458	10.3	1,283	29.0	1,038	23.4	658	14.9	332	7.5	10	0.2	4,428	100.0
CO	61	8.0	65	8.5	44	5.8	287	37.6	136	17.8	103	13.5	66	8.6	2	0.3	764	100.0
CT	2	0.6	73	20.3	32	8.9	81	22.6	104	29.0	38	10.6	25	7.0	4	1.1	359	100.0
DE	1	0.6	18	11.1	5	3.1	61	37.7	20	12.3	38	23.5	19	11.7	0	0.0	162	100.0
DC	0	0.0	2	6.3	0	0.0	11	34.4	13	40.6	6	18.8	0	0.0	0	0.0	32	100.0
FL	81	2.3	244	6.9	115	3.3	1,426	40.4	682	19.3	580	16.4	392	11.1	10	0.3	3,530	100.0
GA	50	2.8	174	9.7	77	4.3	458	25.5	476	26.5	336	18.7	226	12.6	0	0.0	1,797	100.0
HI	0	0.0	4	3.4	0	0.0	76	65.5	33	28.4	2	1.7	0	0.0	1	0.9	116	100.0
ID	21	9.8	9	4.2	5	2.3	61	28.4	45	20.9	51	23.7	23	10.7	0	0.0	215	100.0
IL	54	4.3	139	11.0	13	1.0	359	28.3	323	25.5	224	17.7	148	11.7	8	0.6	1,268	100.0
IN	70	7.4	52	5.5	17	1.8	303	31.9	173	18.2	216	22.8	117	12.3	1	0.1	949	100.0
IA	24	7.1	16	4.7	0	0.0	97	28.7	61	18.0	94	27.8	44	13.0	2	0.6	338	100.0
KS	25	6.1	35	8.5	20	4.9	60	14.6	96	23.4	124	30.2	49	12.0	1	0.2	410	100.0
KY	41	5.5	33	4.4	11	1.5	173	23.3	167	22.4	182	24.5	136	18.3	1	0.1	744	100.0
LA	49	5.4	90	9.9	11	1.2	190	21.0	208	23.0	153	16.9	193	21.3	12	1.3	906	100.0
ME	9	4.9	5	2.7	0	0.0	39	21.4	30	16.5	65	35.7	32	17.6	2	1.1	182	100.0
MD	4	0.7	78	13.8	57	10.1	188	33.3	124	22.0	90	16.0	16	2.8	7	1.2	564	100.0
MA	1	0.2	71	16.4	31	7.1	130	30.0	111	25.6	47	10.8	39	9.0	4	0.9	434	100.0
MI	17	1.5	86	7.7	50	4.4	303	27.0	311	27.7	214	19.0	131	11.7	12	1.1	1,124	100.0
MN	13	2.9	33	7.4	20	4.5	82	18.5	152	34.2	96	21.6	45	10.1	3	0.7	444	100.0
MS	49	7.0	39	5.5	3	0.4	207	29.4	138	19.6	155	22.0	31	4.4	81	11.5	703	100.0
MO	58	5.5	101	9.6	66	6.2	253	23.9	231	21.9	215	20.3	67	6.3	66	6.2	1,057	100.0
MT	33	15.5	5	2.3	0	0.0	83	39.0	38	17.8	31	14.6	21	9.9	2	0.9	213	100.0

5. States

Table 109. People Killed, by State and Roadway Function Class (Continued)

State	Roadway Function Class																Total Killed	
	Principal Arterial								Minor Arterial	Collector	Local	Unknown						
	Interstate				Freeway and Expressway		Other											
	Rural		Urban		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%		
NE	21	8.6	5	2.0	16	6.6	81	33.2	66	27.0	29	11.9	26	10.7	0	0.0	244	100.0
NV	38	9.1	22	5.3	6	1.4	118	28.4	142	34.1	56	13.5	34	8.2	0	0.0	416	100.0
NH	8	5.5	9	6.2	5	3.4	32	21.9	43	29.5	30	20.5	19	13.0	0	0.0	146	100.0
NJ	7	1.0	58	8.5	95	13.9	215	31.4	144	21.0	93	13.6	68	9.9	5	0.7	685	100.0
NM	79	17.0	31	6.7	2	0.4	165	35.4	65	13.9	79	17.0	45	9.7	0	0.0	466	100.0
NY	11	0.9	81	6.9	112	9.5	333	28.3	240	20.4	168	14.3	228	19.4	2	0.2	1,175	100.0
NC	82	5.0	82	5.0	92	5.6	305	18.7	327	20.1	409	25.1	332	20.4	1	0.1	1,630	100.0
ND	9	9.2	5	5.1	1	1.0	40	40.8	2	2.0	23	23.5	18	18.4	0	0.0	98	100.0
OH	64	5.0	105	8.2	32	2.5	260	20.4	290	22.7	341	26.7	175	13.7	8	0.6	1,275	100.0
OK	50	7.0	45	6.3	5	0.7	181	25.5	164	23.1	167	23.5	98	13.8	0	0.0	710	100.0
OR	25	4.2	22	3.7	2	0.3	258	42.9	135	22.5	127	21.1	32	5.3	0	0.0	601	100.0
PA	68	5.8	63	5.3	40	3.4	355	30.1	240	20.4	192	16.3	218	18.5	3	0.3	1,179	100.0
RI	2	3.8	8	15.4	6	11.5	19	36.5	6	11.5	7	13.5	3	5.8	1	1.9	52	100.0
SC	67	6.1	39	3.6	5	0.5	376	34.4	177	16.2	303	27.7	127	11.6	0	0.0	1,094	100.0
SD	15	10.9	4	2.9	4	2.9	38	27.7	23	16.8	34	24.8	19	13.9	0	0.0	137	100.0
TN	76	5.8	112	8.5	25	1.9	412	31.4	297	22.6	255	19.4	137	10.4	0	0.0	1,314	100.0
TX	190	4.3	474	10.8	270	6.1	1,329	30.1	906	20.6	966	21.9	260	5.9	13	0.3	4,408	100.0
UT	24	7.5	34	10.7	2	0.6	122	38.2	55	17.2	60	18.8	22	6.9	0	0.0	319	100.0
VT	7	9.2	2	2.6	0	0.0	14	18.4	22	28.9	20	26.3	11	14.5	0	0.0	76	100.0
VA	58	5.8	90	8.9	30	3.0	400	39.7	202	20.0	139	13.8	83	8.2	6	0.6	1,008	100.0
WA	30	4.1	60	8.2	67	9.1	214	29.2	172	23.5	144	19.6	40	5.5	6	0.8	733	100.0
WV	23	8.7	11	4.2	0	0.0	52	19.7	59	22.3	89	33.7	29	11.0	1	0.4	264	100.0
WI	26	4.4	38	6.4	20	3.4	175	29.4	153	25.7	128	21.5	55	9.2	1	0.2	596	100.0
WY	31	23.1	5	3.7	0	0.0	41	30.6	19	14.2	23	17.2	12	9.0	3	2.2	134	100.0
USA	2,037	4.8	3,510	8.3	1,938	4.6	12,542	29.5	9,532	22.4	8,171	19.2	4,429	10.4	355	0.8	42,514	100.0
PR	21	7.7	29	10.7	0	0.0	95	35.1	71	26.2	49	18.1	6	2.2	0	0.0	271	100.0

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Table 110. People Killed, Population, Licensed Drivers, Registered Vehicles, VMT, and Fatality Rates, by State

State	Total Killed	Population	Fatality Rate per 100,000 Population	Licensed Drivers	Fatality Rate per 100,000 Licensed Drivers	Registered Vehicles	Fatality Rate per 100,000 Registered Vehicles	VMT (millions)	Fatality Rate per 100 Million VMT
AL	988	5,074,296	19.47	4,087,885	24.17	5,464,382	18.08	71,631	1.38
AK	82	733,583	11.18	521,220	15.73	679,125	12.07	5,478	1.50
AZ	1,302	7,359,197	17.69	5,847,661	22.27	6,090,179	21.38	76,159	1.71
AR	643	3,045,637	21.11	2,306,921	27.87	3,569,698	18.01	38,530	1.67
CA	4,428	39,029,342	11.35	27,632,103	16.02	31,119,113	14.23	315,244	1.40
CO	764	5,839,926	13.08	4,477,447	17.06	5,116,858	14.93	53,935	1.42
CT	359	3,626,205	9.90	2,628,775	13.66	2,789,423	12.87	29,666	1.21
DE	162	1,018,396	15.91	862,122	18.79	467,268	34.67	9,872	1.64
DC	32	671,803	4.76	510,985	6.26	380,801	8.40	3,421	0.94
FL	3,530	22,244,823	15.87	16,495,556	21.40	19,663,462	17.95	227,757	1.55
GA	1,797	10,912,876	16.47	7,360,699	24.41	9,153,627	19.63	128,871	1.39
HI	116	1,440,196	8.05	937,076	12.38	1,243,333	9.33	10,289	1.13
ID	215	1,939,033	11.09	1,392,644	15.44	2,031,332	10.58	19,157	1.12
IL	1,268	12,582,032	10.08	8,509,418	14.90	10,334,435	12.27	103,752	1.22
IN	949	6,833,037	13.89	4,653,808	20.39	6,256,479	15.17	95,684	0.99
IA	338	3,200,517	10.56	2,354,046	14.36	3,779,422	8.94	32,712	1.03
KS	410	2,937,150	13.96	2,052,073	19.98	2,588,185	15.84	31,334	1.31
KY	744	4,512,310	16.49	2,993,550	24.85	4,291,816	17.34	48,047	1.55
LA	906	4,590,241	19.74	3,401,947	26.63	4,593,542	19.72	56,514	1.60
ME	182	1,385,340	13.14	1,060,461	17.16	1,294,286	14.06	14,651	1.24
MD	564	6,164,660	9.15	4,398,839	12.82	4,919,054	11.47	56,746	0.99
MA	434	6,981,974	6.22	4,889,069	8.88	5,184,450	8.37	56,949	0.76
MI	1,124	10,034,113	11.20	7,776,994	14.45	9,403,708	11.95	95,901	1.17
MN	444	5,717,184	7.77	4,117,786	10.78	5,673,333	7.83	57,471	0.77
MS	703	2,940,057	23.91	2,047,069	34.34	2,298,929	30.58	39,952	1.76
MO	1,057	6,177,957	17.11	4,290,391	24.64	5,373,722	19.67	79,431	1.33
MT	213	1,122,867	18.97	870,882	24.46	2,249,485	9.47	13,514	1.58

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Table 110. People Killed, Population, Licensed Drivers, Registered Vehicles, VMT, and Fatality Rates, by State (Continued)

State	Total Killed	Population	Fatality Rate per 100,000 Population	Licensed Drivers	Fatality Rate per 100,000 Licensed Drivers	Registered Vehicles	Fatality Rate per 100,000 Registered Vehicles	VMT (millions)	Fatality Rate per 100 Million VMT
NE	244	1,967,923	12.40	1,449,818	16.83	1,967,125	12.40	21,270	1.15
NV	416	3,177,772	13.09	2,210,689	18.82	2,672,391	15.57	27,647	1.50
NH	146	1,395,231	10.46	1,174,826	12.43	1,437,151	10.16	13,281	1.10
NJ	685	9,261,699	7.40	6,633,936	10.33	5,999,667	11.42	75,288	0.91
NM	466	2,113,344	22.05	1,508,575	30.89	1,870,380	24.91	26,831	1.74
NY	1,175	19,677,151	5.97	12,084,675	9.72	9,111,362	12.90	115,382	1.02
NC	1,630	10,698,973	15.24	7,980,262	20.43	8,995,906	18.12	119,381	1.37
ND	98	779,261	12.58	563,161	17.40	1,093,509	8.96	9,180	1.07
OH	1,275	11,756,058	10.85	8,405,794	15.17	11,028,755	11.56	110,578	1.15
OK	710	4,019,800	17.66	2,556,609	27.77	3,345,331	21.22	44,566	1.59
OR	601	4,240,137	14.17	3,104,916	19.36	4,139,333	14.52	36,576	1.64
PA	1,179	12,972,008	9.09	9,124,262	12.92	10,868,829	10.85	99,912	1.18
RI	52	1,093,734	4.75	760,414	6.84	806,142	6.45	7,531	0.69
SC	1,094	5,282,634	20.71	4,091,650	26.74	5,245,829	20.85	58,988	1.85
SD	137	909,824	15.06	679,711	20.16	1,364,513	10.04	10,170	1.35
TN	1,314	7,051,339	18.63	5,061,288	25.96	6,828,011	19.24	83,219	1.58
TX	4,408	30,029,572	14.68	18,738,980	23.52	23,291,638	18.93	290,890	1.52
UT	319	3,380,800	9.44	2,252,656	14.16	2,876,800	11.09	34,336	0.93
VT	76	647,064	11.75	478,421	15.89	625,664	12.15	7,128	1.07
VA	1,008	8,683,619	11.61	5,837,147	17.27	7,763,287	12.98	82,083	1.23
WA	733	7,785,786	9.41	5,956,048	12.31	7,835,063	9.36	58,483	1.25
WV	264	1,775,156	14.87	1,148,406	22.99	1,652,896	15.97	15,312	1.72
WI	596	5,892,539	10.11	4,374,582	13.62	5,681,673	10.49	66,167	0.90
WY	134	581,381	23.05	431,900	31.03	890,285	15.05	9,324	1.44
USA	42,514	333,287,557	12.76	235,086,153	18.08	303,528,576	14.01	3,196,191	1.33
PR	271	3,221,789	8.41	NA	NA	NA	NA	14,929	1.82

Sources: Fatalities—FARS; VMT and Licensed Drivers (estimated)—FHWA; Registered Vehicles for States—FHWA; Registered Vehicles for USA—FHWA and Polk data from S&P Global Mobility, Copyright © R.L. Polk & Co.; Population—Census Bureau; NA= not available.

Note: Some States include restricted driver licenses and graduated driver licenses in their licensed driver counts.

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Table 111. People Killed, by State and Person Type

State	Person Type												Total Killed	
	Drivers		Passengers		Motorcyclists		Pedestrians		Pedalcyclists		Other/Unknown*			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
AL	612	61.9	147	14.9	97	9.8	114	11.5	14	1.4	4	0.4	988	100.0
AK	45	54.9	14	17.1	8	9.8	13	15.9	2	2.4	0	0.0	82	100.0
AZ	498	38.2	214	16.4	232	17.8	295	22.7	50	3.8	13	1.0	1,302	100.0
AR	361	56.1	102	15.9	93	14.5	79	12.3	6	0.9	2	0.3	643	100.0
CA	1,758	39.7	624	14.1	634	14.3	1,158	26.2	177	4.0	77	1.7	4,428	100.0
CO	341	44.6	143	18.7	149	19.5	108	14.1	15	2.0	8	1.0	764	100.0
CT	171	47.6	48	13.4	67	18.7	68	18.9	3	0.8	2	0.6	359	100.0
DE	66	40.7	37	22.8	22	13.6	31	19.1	6	3.7	0	0.0	162	100.0
DC	6	18.8	3	9.4	4	12.5	16	50.0	3	9.4	0	0.0	32	100.0
FL	1,383	39.2	455	12.9	668	18.9	773	21.9	222	6.3	29	0.8	3,530	100.0
GA	953	53.0	244	13.6	221	12.3	345	19.2	29	1.6	5	0.3	1,797	100.0
HI	34	29.3	10	8.6	33	28.4	28	24.1	7	6.0	4	3.4	116	100.0
ID	132	61.4	36	16.7	27	12.6	16	7.4	4	1.9	0	0.0	215	100.0
IL	655	51.7	229	18.1	148	11.7	191	15.1	35	2.8	10	0.8	1,268	100.0
IN	540	56.9	142	15.0	126	13.3	114	12.0	16	1.7	11	1.2	949	100.0
IA	207	61.2	58	17.2	50	14.8	16	4.7	4	1.2	3	0.9	338	100.0
KS	255	62.2	61	14.9	53	12.9	32	7.8	7	1.7	2	0.5	410	100.0
KY	415	55.8	112	15.1	105	14.1	93	12.5	14	1.9	5	0.7	744	100.0
LA	457	50.4	124	13.7	91	10.0	181	20.0	45	5.0	8	0.9	906	100.0
ME	109	59.9	18	9.9	32	17.6	21	11.5	2	1.1	0	0.0	182	100.0
MD	271	48.0	66	11.7	77	13.7	128	22.7	10	1.8	12	2.1	564	100.0
MA	214	49.3	56	12.9	57	13.1	94	21.7	9	2.1	4	0.9	434	100.0
MI	574	51.1	157	14.0	179	15.9	169	15.0	36	3.2	9	0.8	1,124	100.0
MN	254	57.2	57	12.8	82	18.5	43	9.7	6	1.4	2	0.5	444	100.0
MS	434	61.7	119	16.9	52	7.4	81	11.5	17	2.4	0	0.0	703	100.0
MO	574	54.3	179	16.9	157	14.9	128	12.1	11	1.0	8	0.8	1,057	100.0
MT	116	54.5	38	17.8	37	17.4	18	8.5	2	0.9	2	0.9	213	100.0

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Table 111. People Killed, by State and Person Type (Continued)

State	Person Type												Total Killed	
	Drivers		Passengers		Motorcyclists		Pedestrians		Pedalcyclists		Other/Unknown*			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
NE	147	60.2	45	18.4	29	11.9	23	9.4	0	0.0	0	0.0	244	100.0
NV	151	36.3	69	16.6	88	21.2	83	20.0	15	3.6	10	2.4	416	100.0
NH	75	51.4	19	13.0	32	21.9	16	11.0	3	2.1	1	0.7	146	100.0
NJ	283	41.3	99	14.5	95	13.9	183	26.7	18	2.6	7	1.0	685	100.0
NM	222	47.6	89	19.1	54	11.6	93	20.0	4	0.9	4	0.9	466	100.0
NY	473	40.3	151	12.9	185	15.7	303	25.8	50	4.3	13	1.1	1,175	100.0
NC	888	54.5	236	14.5	220	13.5	257	15.8	22	1.3	7	0.4	1,630	100.0
ND	61	62.2	9	9.2	21	21.4	6	6.1	1	1.0	0	0.0	98	100.0
OH	689	54.0	183	14.4	216	16.9	160	12.5	8	0.6	19	1.5	1,275	100.0
OK	383	53.9	117	16.5	93	13.1	96	13.5	15	2.1	6	0.8	710	100.0
OR	285	47.4	78	13.0	98	16.3	123	20.5	13	2.2	4	0.7	601	100.0
PA	575	48.8	183	15.5	217	18.4	179	15.2	15	1.3	10	0.8	1,179	100.0
RI	26	50.0	9	17.3	10	19.2	7	13.5	0	0.0	0	0.0	52	100.0
SC	574	52.5	151	13.8	170	15.5	172	15.7	25	2.3	2	0.2	1,094	100.0
SD	77	56.2	31	22.6	13	9.5	11	8.0	3	2.2	2	1.5	137	100.0
TN	716	54.5	217	16.5	153	11.6	210	16.0	15	1.1	3	0.2	1,314	100.0
TX	2,159	49.0	759	17.2	564	12.8	797	18.1	91	2.1	38	0.9	4,408	100.0
UT	155	48.6	45	14.1	50	15.7	45	14.1	15	4.7	9	2.8	319	100.0
VT	46	60.5	9	11.8	14	18.4	6	7.9	1	1.3	0	0.0	76	100.0
VA	558	55.4	144	14.3	118	11.7	173	17.2	11	1.1	4	0.4	1,008	100.0
WA	354	48.3	102	13.9	133	18.1	126	17.2	11	1.5	7	1.0	733	100.0
WV	162	61.4	36	13.6	42	15.9	21	8.0	2	0.8	1	0.4	264	100.0
WI	335	56.2	92	15.4	82	13.8	72	12.1	14	2.3	1	0.2	596	100.0
WY	79	59.0	27	20.1	20	14.9	7	5.2	1	0.7	0	0.0	134	100.0
USA	20,908	49.2	6,393	15.0	6,218	14.6	7,522	17.7	1,105	2.6	368	0.9	42,514	100.0
PR	115	42.4	20	7.4	57	21.0	67	24.7	11	4.1	1	0.4	271	100.0

*Includes unknown occupants and other/unknown nonoccupants.

Note: Starting in 2022, people on motorized bicycles are classified as pedalcyclists instead of motorcyclists. For more details, see page 6 of this report.

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Table 112. People Killed, by State and Age Group

State	Age Group												Total Killed
	<5	5-9	10-14	15-20	21-24	25-34	35-44	45-54	55-64	65-74	>74	Unknown	
AL	9	9	9	63	90	193	159	133	145	88	82	8	988
AK	2	0	0	5	7	21	14	9	16	5	3	0	82
AZ	13	14	17	108	83	229	224	166	188	163	92	5	1,302
AR	3	4	4	53	52	103	102	108	95	67	52	0	643
CA	27	26	44	335	381	1,010	721	559	636	380	297	12	4,428
CO	4	3	8	78	69	169	115	102	101	62	53	0	764
CT	0	0	1	39	35	76	56	40	53	26	33	0	359
DE	0	4	4	19	5	30	24	23	20	22	11	0	162
DC	0	0	1	0	0	11	4	4	4	7	1	0	32
FL	27	24	38	260	244	634	533	453	479	411	361	66	3,530
GA	16	13	20	139	135	366	301	264	252	156	124	11	1,797
HI	0	2	1	4	6	16	11	21	27	16	12	0	116
ID	1	0	3	18	13	36	37	30	30	23	24	0	215
IL	15	10	15	122	107	228	183	155	165	133	128	7	1,268
IN	10	6	10	74	71	170	164	130	134	102	75	3	949
IA	2	3	9	35	25	54	46	40	43	42	35	4	338
KS	0	10	11	34	35	68	70	55	52	44	31	0	410
KY	11	2	8	59	39	114	127	97	121	87	79	0	744
LA	10	6	8	83	64	179	149	132	122	88	61	4	906
ME	0	1	1	18	12	33	21	26	28	20	22	0	182
MD	2	4	5	50	40	124	82	87	82	45	43	0	564
MA	0	0	1	38	36	72	46	58	64	56	63	0	434
MI	6	8	12	74	79	183	174	170	172	133	112	1	1,124
MN	7	3	5	35	22	57	74	65	69	46	60	1	444
MS	11	6	7	48	56	141	105	98	112	61	45	13	703
MO	9	8	10	111	69	168	151	143	164	107	116	1	1,057
MT	3	1	5	18	14	29	34	29	40	19	21	0	213

5. States

Table 112. People Killed, by State and Age Group (Continued)

State	Age Group												Total Killed
	<5	5-9	10-14	15-20	21-24	25-34	35-44	45-54	55-64	65-74	>74	Unknown	
NE	0	0	2	23	31	46	42	24	28	21	23	4	244
NV	8	4	5	23	43	85	69	57	46	42	28	6	416
NH	0	2	0	7	15	18	20	17	33	12	22	0	146
NJ	3	0	4	44	40	121	96	93	114	72	96	2	685
NM	3	4	1	47	44	104	87	57	52	35	32	0	466
NY	11	7	14	97	91	218	157	146	170	134	127	3	1,175
NC	17	14	14	122	146	312	256	217	206	164	143	19	1,630
ND	0	1	0	12	8	13	19	16	10	11	8	0	98
OH	17	11	14	105	99	230	198	178	172	147	104	0	1,275
OK	7	8	13	65	59	105	107	93	91	90	72	0	710
OR	3	2	5	43	40	102	92	98	90	72	54	0	601
PA	10	7	11	80	85	206	183	142	185	130	139	1	1,179
RI	0	0	0	6	4	9	6	8	11	5	3	0	52
SC	9	8	15	77	88	224	184	163	165	85	73	3	1,094
SD	0	0	6	11	4	23	22	24	17	19	11	0	137
TN	5	8	10	118	97	251	228	165	172	123	133	4	1,314
TX	51	43	62	395	407	964	733	596	527	353	261	16	4,408
UT	6	6	8	34	27	59	46	42	40	28	23	0	319
VT	1	0	2	5	7	10	12	4	14	12	9	0	76
VA	2	6	2	83	62	185	145	132	158	108	120	5	1,008
WA	1	3	8	44	71	149	123	100	105	68	61	0	733
WV	1	2	3	15	15	36	39	41	35	48	29	0	264
WI	10	7	6	37	38	106	94	59	86	84	68	1	596
WY	2	2	0	21	9	14	17	19	26	19	5	0	134
USA	355	312	462	3,434	3,319	8,104	6,702	5,688	5,967	4,291	3,680	200	42,514
PR	1	1	0	17	23	55	49	32	32	25	25	11	271

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Table 113. Vehicle Occupants Killed, by State and Vehicle Type

State	Vehicle Type												Motorcycles		Total Occupants Killed	
	Passenger Cars		Light Trucks		Large Trucks		Buses		Other/Unknown Vehicles		Subtotal					
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
AL	353	41.2	357	41.7	32	3.7	0	0.0	17	2.0	759	88.7	97	11.3	856	100.0
AK	25	37.3	31	46.3	1	1.5	0	0.0	2	3.0	59	88.1	8	11.9	67	100.0
AZ	268	28.3	320	33.8	28	3.0	1	0.1	99	10.4	716	75.5	232	24.5	948	100.0
AR	187	33.6	228	41.0	23	4.1	1	0.2	24	4.3	463	83.3	93	16.7	556	100.0
CA	1,385	45.9	921	30.5	41	1.4	2	0.1	37	1.2	2,386	79.0	634	21.0	3,020	100.0
CO	195	30.8	267	42.1	20	3.2	0	0.0	3	0.5	485	76.5	149	23.5	634	100.0
CT	129	45.1	82	28.7	7	2.4	0	0.0	1	0.3	219	76.6	67	23.4	286	100.0
DE	50	40.0	51	40.8	2	1.6	0	0.0	0	0.0	103	82.4	22	17.6	125	100.0
DC	6	46.2	2	15.4	1	7.7	0	0.0	0	0.0	9	69.2	4	30.8	13	100.0
FL	928	37.0	820	32.7	52	2.1	1	0.0	40	1.6	1,841	73.4	668	26.6	2,509	100.0
GA	571	40.3	521	36.7	64	4.5	1	0.1	40	2.8	1,197	84.4	221	15.6	1,418	100.0
HI	14	18.2	27	35.1	2	2.6	0	0.0	1	1.3	44	57.1	33	42.9	77	100.0
ID	64	32.8	89	45.6	6	3.1	0	0.0	9	4.6	168	86.2	27	13.8	195	100.0
IL	446	43.2	378	36.6	31	3.0	1	0.1	29	2.8	885	85.7	148	14.3	1,033	100.0
IN	341	42.1	308	38.0	26	3.2	0	0.0	9	1.1	684	84.4	126	15.6	810	100.0
IA	96	30.3	136	42.9	16	5.0	1	0.3	18	5.7	267	84.2	50	15.8	317	100.0
KS	128	34.7	155	42.0	23	6.2	0	0.0	10	2.7	316	85.6	53	14.4	369	100.0
KY	244	38.5	240	37.9	19	3.0	0	0.0	25	3.9	528	83.4	105	16.6	633	100.0
LA	258	38.2	282	41.8	19	2.8	0	0.0	25	3.7	584	86.5	91	13.5	675	100.0
ME	57	35.8	67	42.1	1	0.6	0	0.0	2	1.3	127	79.9	32	20.1	159	100.0
MD	197	47.6	131	31.6	7	1.7	0	0.0	2	0.5	337	81.4	77	18.6	414	100.0
MA	152	46.5	112	34.3	3	0.9	1	0.3	2	0.6	270	82.6	57	17.4	327	100.0
MI	292	32.1	395	43.4	11	1.2	0	0.0	33	3.6	731	80.3	179	19.7	910	100.0
MN	136	34.6	147	37.4	11	2.8	0	0.0	17	4.3	311	79.1	82	20.9	393	100.0
MS	256	42.3	255	42.1	16	2.6	1	0.2	25	4.1	553	91.4	52	8.6	605	100.0
MO	300	32.9	380	41.7	35	3.8	1	0.1	39	4.3	755	82.8	157	17.2	912	100.0
MT	47	24.5	91	47.4	8	4.2	0	0.0	9	4.7	155	80.7	37	19.3	192	100.0

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Table 113. Vehicle Occupants Killed, by State and Vehicle Type (Continued)

State	Vehicle Type												Motorcycles		Total Occupants Killed	
	Passenger Cars		Light Trucks		Large Trucks		Buses		Other/Unknown Vehicles		Subtotal					
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
NE	87	39.4	84	38.0	18	8.1	0	0.0	3	1.4	192	86.9	29	13.1	221	100.0
NV	105	34.1	102	33.1	11	3.6	0	0.0	2	0.6	220	71.4	88	28.6	308	100.0
NH	36	28.6	53	42.1	4	3.2	0	0.0	1	0.8	94	74.6	32	25.4	126	100.0
NJ	203	42.5	157	32.8	18	3.8	4	0.8	1	0.2	383	80.1	95	19.9	478	100.0
NM	114	31.0	168	45.7	20	5.4	4	1.1	8	2.2	314	85.3	54	14.7	368	100.0
NY	299	37.0	283	35.0	22	2.7	1	0.1	19	2.3	624	77.1	185	22.9	809	100.0
NC	593	44.1	477	35.5	42	3.1	0	0.0	13	1.0	1,125	83.6	220	16.4	1,345	100.0
ND	10	11.0	46	50.5	8	8.8	0	0.0	6	6.6	70	76.9	21	23.1	91	100.0
OH	420	38.4	389	35.6	28	2.6	0	0.0	41	3.7	878	80.3	216	19.7	1,094	100.0
OK	179	30.2	274	46.2	26	4.4	0	0.0	21	3.5	500	84.3	93	15.7	593	100.0
OR	174	37.7	172	37.3	11	2.4	0	0.0	6	1.3	363	78.7	98	21.3	461	100.0
PA	355	36.3	334	34.2	47	4.8	0	0.0	25	2.6	761	77.8	217	22.2	978	100.0
RI	17	37.8	16	35.6	1	2.2	0	0.0	1	2.2	35	77.8	10	22.2	45	100.0
SC	339	37.9	360	40.2	18	2.0	0	0.0	8	0.9	725	81.0	170	19.0	895	100.0
SD	38	31.4	54	44.6	9	7.4	0	0.0	7	5.8	108	89.3	13	10.7	121	100.0
TN	433	39.9	444	40.9	35	3.2	0	0.0	21	1.9	933	85.9	153	14.1	1,086	100.0
TX	1,168	33.5	1,535	44.1	173	5.0	2	0.1	42	1.2	2,920	83.8	564	16.2	3,484	100.0
UT	98	39.2	82	32.8	11	4.4	0	0.0	9	3.6	200	80.0	50	20.0	250	100.0
VT	24	34.8	22	31.9	5	7.2	0	0.0	4	5.8	55	79.7	14	20.3	69	100.0
VA	354	43.2	312	38.0	24	2.9	3	0.4	9	1.1	702	85.6	118	14.4	820	100.0
WA	222	37.5	211	35.6	19	3.2	0	0.0	7	1.2	459	77.5	133	22.5	592	100.0
WV	65	27.1	106	44.2	9	3.8	0	0.0	18	7.5	198	82.5	42	17.5	240	100.0
WI	203	39.9	197	38.7	20	3.9	0	0.0	7	1.4	427	83.9	82	16.1	509	100.0
WY	30	23.8	58	46.0	13	10.3	1	0.8	4	3.2	106	84.1	20	15.9	126	100.0
USA	12,691	37.8	12,729	37.9	1,097	3.3	26	0.1	801	2.4	27,344	81.5	6,218	18.5	33,562	100.0
PR	90	46.9	40	20.8	3	1.6	0	0.0	2	1.0	135	70.3	57	29.7	192	100.0

Note: Starting in 2022, motorcyclists exclude people on motorized bicycles. For more details, see page 6 of this report.

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Table 114. Passenger Car and Light-Truck Occupants Killed, by State and Restraint Use

State	Restraint Use						Total Occupants Killed	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
AL	282	39.7	362	51.0	66	9.3	710	100.0
AK	31	55.4	17	30.4	8	14.3	56	100.0
AZ	239	40.6	268	45.6	81	13.8	588	100.0
AR	163	39.3	188	45.3	64	15.4	415	100.0
CA	1,221	52.9	842	36.5	243	10.5	2,306	100.0
CO	222	48.1	227	49.1	13	2.8	462	100.0
CT	83	39.3	74	35.1	54	25.6	211	100.0
DE	61	60.4	35	34.7	5	5.0	101	100.0
DC	3	37.5	4	50.0	1	12.5	8	100.0
FL	930	53.2	777	44.5	41	2.3	1,748	100.0
GA	456	41.8	518	47.4	118	10.8	1,092	100.0
HI	24	58.5	16	39.0	1	2.4	41	100.0
ID	52	34.0	81	52.9	20	13.1	153	100.0
IL	338	41.0	274	33.3	212	25.7	824	100.0
IN	260	40.1	229	35.3	160	24.7	649	100.0
IA	107	46.1	102	44.0	23	9.9	232	100.0
KS	114	40.3	142	50.2	27	9.5	283	100.0
KY	230	47.5	254	52.5	0	0.0	484	100.0
LA	204	37.8	280	51.9	56	10.4	540	100.0
ME	58	46.8	65	52.4	1	0.8	124	100.0
MD	153	46.6	150	45.7	25	7.6	328	100.0
MA	96	36.4	137	51.9	31	11.7	264	100.0
MI	331	48.2	230	33.5	126	18.3	687	100.0
MN	153	54.1	78	27.6	52	18.4	283	100.0
MS	226	44.2	197	38.6	88	17.2	511	100.0
MO	245	36.0	363	53.4	72	10.6	680	100.0
MT	51	37.0	82	59.4	5	3.6	138	100.0

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Table 114. Passenger Car and Light-Truck Occupants Killed, by State and Restraint Use (Continued)

State	Restraint Use						Total Occupants Killed	
	Restrained		Unrestrained		Unknown			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
NE	57	33.3	85	49.7	29	17.0	171	100.0
NV	88	42.5	82	39.6	37	17.9	207	100.0
NH	25	28.1	52	58.4	12	13.5	89	100.0
NJ	195	54.2	140	38.9	25	6.9	360	100.0
NM	118	41.8	142	50.4	22	7.8	282	100.0
NY	320	55.0	203	34.9	59	10.1	582	100.0
NC	526	49.2	505	47.2	39	3.6	1,070	100.0
ND	12	21.4	39	69.6	5	8.9	56	100.0
OH	304	37.6	401	49.6	104	12.9	809	100.0
OK	192	42.4	219	48.3	42	9.3	453	100.0
OR	189	54.6	108	31.2	49	14.2	346	100.0
PA	260	37.7	334	48.5	95	13.8	689	100.0
RI	14	42.4	19	57.6	0	0.0	33	100.0
SC	284	40.6	375	53.6	40	5.7	699	100.0
SD	33	35.9	49	53.3	10	10.9	92	100.0
TN	376	42.9	437	49.8	64	7.3	877	100.0
TX	1,241	45.9	1,175	43.5	287	10.6	2,703	100.0
UT	79	43.9	85	47.2	16	8.9	180	100.0
VT	18	39.1	27	58.7	1	2.2	46	100.0
VA	290	43.5	373	56.0	3	0.5	666	100.0
WA	209	48.3	153	35.3	71	16.4	433	100.0
WV	57	33.3	85	49.7	29	17.0	171	100.0
WI	165	41.3	161	40.3	74	18.5	400	100.0
WY	25	28.4	61	69.3	2	2.3	88	100.0
USA	11,410	44.9	11,302	44.5	2,708	10.7	25,420	100.0
PR	41	31.5	89	68.5	0	0.0	130	100.0

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Table 115. Passenger Car and Light-Truck Occupants Killed, by State, Vehicle Type, and Rollover Occurrence

State	Passenger Cars			Light Trucks									Total*		
	Total Killed	Rollover		Total Killed	Pickup		Total Killed	Utility		Total Killed	Van		Total Killed	Rollover	
		Number	Percent		Number	Percent		Number	Percent		Number	Percent		Number	Percent
AL	353	69	19.5	169	73	43.2	164	61	37.2	24	2	8.3	710	205	28.9
AK	25	4	16.0	13	6	46.2	15	7	46.7	3	1	33.3	56	18	32.1
AZ	268	43	16.0	116	60	51.7	176	81	46.0	28	4	14.3	588	188	32.0
AR	187	46	24.6	98	35	35.7	112	31	27.7	18	4	22.2	415	116	28.0
CA	1,385	328	23.7	294	149	50.7	549	242	44.1	77	24	31.2	2,306	744	32.3
CO	195	51	26.2	83	45	54.2	171	83	48.5	12	4	33.3	462	183	39.6
CT	129	28	21.7	15	4	26.7	62	16	25.8	5	2	40.0	211	50	23.7
DE	50	10	20.0	12	2	16.7	33	9	27.3	6	0	0.0	101	21	20.8
DC	6	0	0.0	0	0	0.0	0	0	0.0	2	0	0.0	8	0	0.0
FL	928	143	15.4	261	83	31.8	488	142	29.1	71	14	19.7	1,748	382	21.9
GA	571	149	26.1	186	72	38.7	297	131	44.1	38	7	18.4	1,092	359	32.9
HI	14	1	7.1	11	5	45.5	14	4	28.6	2	0	0.0	41	10	24.4
ID	64	20	31.3	45	23	51.1	40	23	57.5	4	2	50.0	153	68	44.4
IL	446	72	16.1	103	36	35.0	232	58	25.0	41	3	7.3	824	170	20.6
IN	341	62	18.2	88	20	22.7	189	60	31.7	31	8	25.8	649	150	23.1
IA	96	18	18.8	47	20	42.6	64	25	39.1	25	7	28.0	232	70	30.2
KS	128	37	28.9	75	36	48.0	68	33	48.5	12	4	33.3	283	110	38.9
KY	244	50	20.5	106	43	40.6	121	38	31.4	13	4	30.8	484	135	27.9
LA	258	41	15.9	149	63	42.3	121	36	29.8	12	6	50.0	540	146	27.0
ME	57	13	22.8	21	11	52.4	40	9	22.5	6	2	33.3	124	35	28.2
MD	197	34	17.3	28	7	25.0	91	22	24.2	12	1	8.3	328	64	19.5
MA	152	33	21.7	22	7	31.8	74	21	28.4	16	3	18.8	264	64	24.2
MI	292	51	17.5	117	35	29.9	246	69	28.0	32	4	12.5	687	159	23.1
MN	136	23	16.9	35	12	34.3	103	34	33.0	9	2	22.2	283	71	25.1
MS	256	71	27.7	116	37	31.9	123	46	37.4	16	3	18.8	511	157	30.7
MO	300	72	24.0	143	63	44.1	200	77	38.5	37	8	21.6	680	220	32.4
MT	47	16	34.0	39	17	43.6	43	22	51.2	9	2	22.2	138	57	41.3

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Table 115. Passenger Car and Light-Truck Occupants Killed, by State, Vehicle Type, and Rollover Occurrence (Continued)

State	Passenger Cars			Light Trucks									Total*		
	Total Killed	Rollover		Total Killed	Pickup		Utility			Van			Total Killed	Rollover	
		Number	Percent		Number	Percent	Total Killed	Number	Percent	Total Killed	Number	Percent		Total Killed	Number
NE	87	12	13.8	30	13	43.3	47	17	36.2	7	1	14.3	171	43	25.1
NV	105	31	29.5	45	23	51.1	43	23	53.5	14	11	78.6	207	88	42.5
NH	36	6	16.7	16	2	12.5	32	12	37.5	5	0	0.0	89	20	22.5
NJ	203	41	20.2	25	8	32.0	112	25	22.3	20	8	40.0	360	82	22.8
NM	114	28	24.6	69	36	52.2	90	63	70.0	9	1	11.1	282	128	45.4
NY	299	46	15.4	75	19	25.3	185	48	25.9	23	2	8.7	582	115	19.8
NC	593	152	25.6	172	57	33.1	248	85	34.3	57	14	24.6	1,070	308	28.8
ND	10	2	20.0	29	20	69.0	14	8	57.1	3	1	33.3	56	31	55.4
OH	420	88	21.0	108	27	25.0	242	77	31.8	39	6	15.4	809	198	24.5
OK	179	35	19.6	124	55	44.4	130	53	40.8	20	10	50.0	453	153	33.8
OR	174	44	25.3	59	23	39.0	99	41	41.4	14	4	28.6	346	112	32.4
PA	355	66	18.6	72	20	27.8	229	70	30.6	33	1	3.0	689	157	22.8
RI	17	5	29.4	5	2	40.0	11	2	18.2	0	0	0.0	33	9	27.3
SC	339	84	24.8	130	45	34.6	201	79	39.3	27	3	11.1	699	211	30.2
SD	38	18	47.4	19	10	52.6	30	11	36.7	5	0	0.0	92	39	42.4
TN	433	89	20.6	177	50	28.2	230	91	39.6	37	8	21.6	877	238	27.1
TX	1,168	226	19.3	662	277	41.8	790	292	37.0	83	28	33.7	2,703	823	30.4
UT	98	22	22.4	29	17	58.6	44	23	52.3	9	3	33.3	180	65	36.1
VT	24	3	12.5	8	2	25.0	12	4	33.3	2	0	0.0	46	9	19.6
VA	354	73	20.6	113	38	33.6	168	61	36.3	30	6	20.0	666	178	26.7
WA	222	47	21.2	85	33	38.8	113	40	35.4	13	3	23.1	433	123	28.4
WV	65	14	21.5	46	17	37.0	53	21	39.6	7	0	0.0	171	52	30.4
WI	203	53	26.1	57	21	36.8	112	38	33.9	28	5	17.9	400	117	29.3
WY	30	20	66.7	25	18	72.0	32	23	71.9	1	0	0.0	88	61	69.3
USA	12,691	2,690	21.2	4,572	1,797	39.3	7,103	2,587	36.4	1,047	236	22.5	25,420	7,312	28.8
PR	90	8	8.9	14	5	35.7	26	5	19.2	0	0	0.0	130	18	13.8

*Includes occupants of other and unknown light trucks.

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Table 116. Ranking of State Pedestrian Fatality Rates

Rank	State	Pedestrians Killed	Population	Pedestrian Fatality Rate per 100,000 Population
1	New Mexico	93	2,113,344	4.40
2	Arizona	295	7,359,197	4.01
3	Louisiana	181	4,590,241	3.94
4	Florida	773	22,244,823	3.47
5	South Carolina	172	5,282,634	3.26
6	Georgia	345	10,912,876	3.16
7	Delaware	31	1,018,396	3.04
8	Tennessee	210	7,051,339	2.98
9	California	1,158	39,029,342	2.97
10	Oregon	123	4,240,137	2.90
11	Mississippi	81	2,940,057	2.76
12	Texas	797	30,029,572	2.65
13	Nevada	83	3,177,772	2.61
14	Arkansas	79	3,045,637	2.59
15	North Carolina	257	10,698,973	2.40
16	Oklahoma	96	4,019,800	2.39
17	District of Columbia	16	671,803	2.38
18	Alabama	114	5,074,296	2.25
19	Maryland	128	6,164,660	2.08
20	Missouri	128	6,177,957	2.07
21	Kentucky	93	4,512,310	2.06
22	Virginia	173	8,683,619	1.99
23	New Jersey	183	9,261,699	1.98
24	Hawaii	28	1,440,196	1.94
25	Connecticut	68	3,626,205	1.88
26	Colorado	108	5,839,926	1.85
27	Alaska	13	733,583	1.77

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Table 116. Ranking of State Pedestrian Fatality Rates (Continued)

Rank	State	Pedestrians Killed	Population	Pedestrian Fatality Rate per 100,000 Population
28	Michigan	169	10,034,113	1.68
29	Indiana	114	6,833,037	1.67
30	Washington	126	7,785,786	1.62
31	Montana	18	1,122,867	1.60
32	New York	303	19,677,151	1.54
33	Illinois	191	12,582,032	1.52
34	Maine	21	1,385,340	1.52
35	Pennsylvania	179	12,972,008	1.38
36	Ohio	160	11,756,058	1.36
37	Massachusetts	94	6,981,974	1.35
38	Utah	45	3,380,800	1.33
39	Wisconsin	72	5,892,539	1.22
40	South Dakota	11	909,824	1.21
41	Wyoming	7	581,381	1.20
42	West Virginia	21	1,775,156	1.18
43	Nebraska	23	1,967,923	1.17
44	New Hampshire	16	1,395,231	1.15
45	Kansas	32	2,937,150	1.09
46	Vermont	6	647,064	0.93
47	Idaho	16	1,939,033	0.83
48	North Dakota	6	779,261	0.77
49	Minnesota	43	5,717,184	0.75
50	Rhode Island	7	1,093,734	0.64
51	Iowa	16	3,200,517	0.50
	National	7,522	333,287,557	2.26
	Puerto Rico	67	3,221,789	2.08

Source: Population—Census Bureau

5. States

Table 117. People Killed, by State and Highest Driver BAC in the Crash

State	BAC = .00		BAC = .01-.07		Alcohol-Impaired-Driving Fatalities (BAC = .08+)		BAC = .01+		Total Killed*	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
AL	661	67	46	5	281	28	326	33	988	100
AK	61	75	1	2	20	24	21	25	82	100
AZ	780	60	67	5	450	35	518	40	1,302	100
AR	443	69	48	7	153	24	200	31	643	100
CA	2,717	61	224	5	1,479	33	1,703	38	4,428	100
CO	447	59	54	7	260	34	314	41	764	100
CT	208	58	24	7	127	35	151	42	359	100
DE	104	64	9	6	49	30	58	36	162	100
DC	18	56	2	5	12	39	14	44	32	100
FL	2,430	69	154	4	940	27	1,094	31	3,530	100
GA	1,197	67	92	5	507	28	599	33	1,797	100
HI	69	60	10	9	37	31	47	40	116	100
ID	136	63	10	5	69	32	79	37	215	100
IL	716	56	80	6	471	37	551	43	1,268	100
IN	624	66	51	5	274	29	325	34	949	100
IA	195	58	22	6	116	34	138	41	338	100
KS	274	67	26	6	109	27	135	33	410	100
KY	539	73	28	4	176	24	204	27	744	100
LA	582	64	57	6	267	29	324	36	906	100
ME	103	56	17	9	62	34	79	43	182	100
MD	337	60	20	3	207	37	227	40	564	100
MA	289	67	22	5	123	28	144	33	434	100
MI	763	68	56	5	305	27	361	32	1,124	100
MN	291	66	23	5	130	29	153	34	444	100
MS	512	73	23	3	168	24	191	27	703	100
MO	689	65	77	7	290	27	367	35	1,057	100
MT	129	61	11	5	71	34	83	39	213	100

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Table 117. People Killed, by State and Highest Driver BAC in the Crash (Continued)

State	BAC = .00		BAC = .01-.07		Alcohol-Impaired-Driving Fatalities (BAC = .08+)		BAC = .01+		Total Killed*	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
NE	155	64	21	9	67	28	89	36	244	100
NV	246	59	30	7	140	34	170	41	416	100
NH	88	61	6	4	52	36	58	39	146	100
NJ	470	69	34	5	177	26	211	31	685	100
NM	287	62	27	6	152	33	179	38	466	100
NY	731	62	74	6	371	32	444	38	1,175	100
NC	1,100	68	68	4	460	28	528	32	1,630	100
ND	57	58	8	8	34	34	42	42	98	100
OH	709	56	88	7	471	37	559	44	1,275	100
OK	492	69	31	4	186	26	216	30	710	100
OR	330	55	39	6	232	39	271	45	601	100
PA	785	67	53	4	338	29	390	33	1,179	100
RI	24	46	6	12	22	43	28	54	52	100
SC	558	51	61	6	474	43	535	49	1,094	100
SD	83	61	10	7	44	32	54	39	137	100
TN	878	67	70	5	364	28	435	33	1,314	100
TX	2,249	51	283	6	1,869	42	2,152	49	4,408	100
UT	231	72	17	5	71	22	88	28	319	100
VT	42	55	9	11	26	34	34	45	76	100
VA	660	65	49	5	298	30	346	34	1,008	100
WA	422	58	50	7	256	35	306	42	733	100
WV	184	70	20	7	60	23	80	30	264	100
WI	398	67	26	4	171	29	197	33	596	100
WY	85	64	9	7	40	30	49	36	134	100
USA	26,580	63	2,337	5	13,524	32	15,861	37	42,514	100
PR	161	59	17	6	91	34	108	40	271	100

*Includes people killed in crashes in which there was no driver present.

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

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Table 118. Drivers Involved in Fatal Crashes, by State and Their BACs

State	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total Drivers Involved in Fatal Crashes	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
AL	1,077	77	53	4	268	19	320	23	1,397	100
AK	101	84	1	1	18	15	19	16	120	100
AZ	1,300	72	73	4	434	24	506	28	1,806	100
AR	725	79	46	5	145	16	191	21	916	100
CA	4,501	73	234	4	1,418	23	1,652	27	6,153	100
CO	795	74	48	4	238	22	286	26	1,080	100
CT	369	73	22	4	114	22	136	27	505	100
DE	177	76	11	5	46	20	56	24	233	100
DC	26	67	2	5	11	28	13	33	39	100
FL	4,118	80	161	3	886	17	1,047	20	5,165	100
GA	1,924	77	98	4	484	19	581	23	2,505	100
HI	119	72	11	6	35	21	46	28	165	100
ID	229	75	12	4	63	21	75	25	304	100
IL	1,317	71	86	5	444	24	530	29	1,847	100
IN	1,091	78	50	4	261	19	311	22	1,402	100
IA	322	70	25	6	112	24	138	30	460	100
KS	406	76	28	5	102	19	130	24	536	100
KY	874	82	29	3	164	15	192	18	1,066	100
LA	919	75	58	5	249	20	307	25	1,226	100
ME	177	71	17	7	57	23	74	29	251	100
MD	599	73	22	3	203	25	225	27	824	100
MA	450	76	23	4	121	20	144	24	594	100
MI	1,269	78	55	3	297	18	352	22	1,621	100
MN	496	77	24	4	124	19	148	23	644	100
MS	774	81	23	2	158	17	181	19	955	100
MO	1,130	76	75	5	273	18	348	24	1,478	100
MT	173	68	13	5	67	27	80	32	253	100

5. States

Table 118. Drivers Involved in Fatal Crashes, by State and Their BACs (Continued)

State	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total Drivers Involved in Fatal Crashes	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
NE	287	78	20	6	59	16	79	22	366	100
NV	426	73	30	5	130	22	159	27	585	100
NH	148	72	7	4	49	24	56	28	204	100
NJ	823	80	35	3	170	17	205	20	1,028	100
NM	486	74	27	4	141	22	168	26	654	100
NY	1,150	72	80	5	362	23	442	28	1,592	100
NC	1,755	78	71	3	428	19	499	22	2,253	100
ND	109	71	9	6	34	22	43	29	152	100
OH	1,312	70	96	5	477	25	573	30	1,885	100
OK	785	79	28	3	180	18	208	21	993	100
OR	548	67	45	5	226	28	271	33	819	100
PA	1,292	78	56	3	318	19	374	22	1,666	100
RI	42	60	7	9	22	31	28	40	70	100
SC	1,002	65	71	5	461	30	532	35	1,533	100
SD	142	75	8	4	39	21	47	25	189	100
TN	1,456	78	71	4	346	18	417	22	1,873	100
TX	4,112	65	324	5	1,845	29	2,169	35	6,280	100
UT	385	82	20	4	66	14	86	18	471	100
VT	74	69	8	7	25	24	33	31	107	100
VA	1,064	76	50	4	288	21	339	24	1,403	100
WA	738	71	55	5	248	24	303	29	1,041	100
WV	277	78	19	5	57	16	76	22	353	100
WI	641	78	27	3	159	19	186	22	827	100
WY	116	73	6	4	37	23	43	27	159	100
USA	44,624	74	2,469	4	12,955	22	15,425	26	60,048	100
PR	255	70	18	5	93	25	111	30	366	100

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

5. States

Table 119. Drivers Killed in Crashes, by State and Their BACs

State	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total Drivers Killed	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
AL	464	66	31	4	204	29	235	34	699	100
AK	41	78	0	0	12	22	12	22	53	100
AZ	487	68	26	4	206	29	232	32	719	100
AR	322	71	28	6	103	23	131	29	452	100
CA	1,418	60	113	5	847	36	961	40	2,378	100
CO	296	62	35	7	150	31	185	38	481	100
CT	151	64	15	6	70	29	85	36	236	100
DE	57	66	5	5	25	29	30	34	86	100
DC	4	41	1	11	5	48	6	59	10	100
FL	1,389	69	90	4	544	27	633	31	2,022	100
GA	772	66	64	6	331	28	395	34	1,167	100
HI	38	58	6	9	22	33	27	42	65	100
ID	105	67	8	5	43	28	51	33	156	100
IL	501	63	44	5	249	31	292	37	793	100
IN	444	67	28	4	186	28	214	33	658	100
IA	166	66	13	5	73	29	86	34	252	100
KS	211	69	19	6	75	25	94	31	305	100
KY	385	75	15	3	116	23	131	25	516	100
LA	338	62	37	7	170	31	206	38	544	100
ME	81	58	12	8	46	33	58	42	139	100
MD	207	60	10	3	130	38	140	40	347	100
MA	180	67	15	6	75	28	90	33	270	100
MI	529	71	27	4	186	25	213	29	742	100
MN	227	68	17	5	88	27	105	32	332	100
MS	381	79	11	2	91	19	101	21	482	100
MO	487	68	43	6	191	27	234	32	721	100
MT	87	57	9	6	56	37	65	43	152	100

5. States

Table 119. Drivers Killed in Crashes, by State and Their BACs (Continued)

State	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total Drivers Killed	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
NE	122	70	13	7	41	23	53	30	175	100
NV	151	63	15	6	72	30	88	37	238	100
NH	61	57	4	4	41	39	45	43	106	100
NJ	254	68	22	6	99	26	121	32	375	100
NM	169	61	16	6	92	33	108	39	276	100
NY	413	64	41	6	195	30	236	36	649	100
NC	780	71	43	4	280	25	323	29	1,103	100
ND	48	59	7	8	27	33	33	41	81	100
OH	553	62	47	5	287	32	334	38	887	100
OK	342	72	12	2	119	25	131	28	472	100
OR	233	61	21	5	127	33	148	39	381	100
PA	524	67	33	4	225	29	258	33	782	100
RI	17	46	4	12	15	42	20	54	36	100
SC	421	57	34	5	281	38	315	43	736	100
SD	56	64	5	5	27	30	31	36	87	100
TN	600	70	40	5	221	26	260	30	860	100
TX	1,575	58	139	5	983	36	1,122	42	2,696	100
UT	144	72	13	6	44	22	57	28	201	100
VT	34	59	5	9	19	32	24	41	58	100
VA	441	66	34	5	198	29	231	34	672	100
WA	306	64	33	7	143	30	176	36	482	100
WV	143	71	13	7	46	23	59	29	202	100
WI	287	69	17	4	110	27	127	31	414	100
WY	63	66	3	3	30	31	33	34	96	100
USA	17,498	65	1,332	5	8,012	30	9,344	35	26,842	100
PR	88	52	12	7	68	40	80	48	168	100

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

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Table 120. Surviving Drivers Involved in Fatal Crashes, by State and Their BACs

State	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total Surviving Drivers in Fatal Crashes	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
AL	613	88	22	3	63	9	85	12	698	100
AK	60	89	1	2	6	9	7	11	67	100
AZ	813	75	47	4	228	21	274	25	1,087	100
AR	404	87	18	4	42	9	60	13	464	100
CA	3,084	82	120	3	571	15	691	18	3,775	100
CO	498	83	13	2	88	15	101	17	599	100
CT	218	81	7	3	44	16	51	19	269	100
DE	120	82	6	4	21	14	27	18	147	100
DC	22	76	1	3	6	21	7	24	29	100
FL	2,730	87	71	2	342	11	414	13	3,143	100
GA	1,152	86	33	2	153	11	186	14	1,338	100
HI	81	81	5	5	14	14	19	19	100	100
ID	125	84	4	3	20	13	24	16	148	100
IL	816	77	43	4	195	18	238	23	1,054	100
IN	647	87	22	3	75	10	97	13	744	100
IA	156	75	13	6	39	19	52	25	208	100
KS	195	84	9	4	27	12	36	16	231	100
KY	489	89	14	3	48	9	62	11	550	100
LA	581	85	22	3	79	12	101	15	682	100
ME	96	86	5	5	11	9	16	14	112	100
MD	392	82	12	2	73	15	85	18	477	100
MA	270	83	8	3	46	14	54	17	324	100
MI	740	84	28	3	112	13	139	16	879	100
MN	269	86	7	2	36	11	43	14	312	100
MS	394	83	12	3	67	14	80	17	473	100
MO	643	85	32	4	82	11	114	15	757	100
MT	86	85	4	4	11	11	15	15	101	100

5. States

Table 120. Surviving Drivers Involved in Fatal Crashes, by State and Their BACs (Continued)

State	BAC = .00		BAC = .01-.07		BAC = .08+		BAC = .01+		Total Surviving Drivers in Fatal Crashes	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
NE	165	86	8	4	18	9	26	14	191	100
NV	275	79	14	4	58	17	72	21	347	100
NH	87	89	3	3	8	8	11	11	98	100
NJ	569	87	13	2	71	11	84	13	653	100
NM	318	84	11	3	49	13	60	16	378	100
NY	737	78	39	4	167	18	206	22	943	100
NC	975	85	28	2	148	13	176	15	1,150	100
ND	61	86	3	4	7	10	10	14	71	100
OH	759	76	48	5	191	19	239	24	998	100
OK	444	85	17	3	61	12	77	15	521	100
OR	315	72	24	6	99	23	123	28	438	100
PA	768	87	23	3	94	11	116	13	884	100
RI	25	75	2	7	6	19	9	25	34	100
SC	580	73	37	5	180	23	217	27	797	100
SD	87	85	3	3	13	12	16	15	102	100
TN	857	85	31	3	125	12	157	15	1,013	100
TX	2,537	71	185	5	862	24	1,047	29	3,584	100
UT	240	89	8	3	22	8	30	11	270	100
VT	40	81	2	5	7	14	9	19	49	100
VA	624	85	17	2	91	12	107	15	731	100
WA	432	77	22	4	105	19	128	23	559	100
WV	134	89	6	4	11	8	17	11	151	100
WI	354	86	10	2	49	12	59	14	413	100
WY	53	84	3	5	7	11	10	16	63	100
USA	27,126	82	1,137	3	4,943	15	6,080	18	33,206	100
PR	167	84	6	3	25	13	31	16	198	100

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. For more details, see page 5 of this report.

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Table 121. Speeding-Related Traffic Fatalities, by State and Roadway Function Class

State	Total Traffic Fatalities	Speeding-Related Fatalities by Roadway Function Class							
		Total*	Interstate		Non-Interstate				
			Rural	Urban	Freeway and Expressway	Other Principal Arterial	Minor Arterial	Collector	Local
AL	988	240	14	11	0	35	61	83	35
AK	82	31	5	5	0	10	1	9	1
AZ	1,302	431	41	40	28	93	140	62	19
AR	643	143	8	15	1	29	33	37	20
CA	4,428	1,403	44	182	160	389	316	197	112
CO	764	291	17	21	20	98	59	47	29
CT	359	115	0	18	10	24	36	14	13
DE	162	55	0	7	2	16	6	16	8
DC	32	13	0	2	0	2	8	1	0
FL	3,530	385	9	18	10	133	90	73	51
GA	1,797	422	3	29	15	90	103	98	84
HI	116	48	0	2	0	33	13	0	0
ID	215	47	7	5	0	7	7	12	9
IL	1,268	414	11	65	5	103	104	76	49
IN	949	290	19	27	1	94	41	64	44
IA	338	74	3	7	0	24	12	16	12
KS	410	95	3	10	7	6	27	26	15
KY	744	131	6	10	2	21	20	29	43
LA	906	210	9	18	2	43	62	36	38
ME	182	53	3	2	0	8	7	25	8
MD	564	176	2	18	23	62	26	34	8
MA	434	116	0	20	10	27	26	16	15
MI	1,124	302	7	23	14	80	66	71	41
MN	444	131	2	7	7	21	48	26	20
MS	703	139	9	7	0	41	23	31	13
MO	1,057	375	14	33	23	81	82	91	28
MT	213	69	6	2	0	27	12	12	8

5. States

Table 121. Speeding-Related Traffic Fatalities, by State and Roadway Function Class (Continued)

State	Total Traffic Fatalities	Speeding-Related Fatalities by Roadway Function Class							
		Total*	Interstate		Non-Interstate				
			Rural	Urban	Freeway and Expressway	Other Principal Arterial	Minor Arterial	Collector	Local
NE	244	48	1	2	2	13	14	13	3
NV	416	105	7	8	3	27	30	19	11
NH	146	53	1	5	2	8	12	13	12
NJ	685	173	4	5	10	71	40	27	15
NM	466	185	33	7	0	41	36	40	28
NY	1,175	402	0	41	59	87	56	80	79
NC	1,630	660	29	23	32	104	132	170	169
ND	98	27	3	1	1	13	0	7	2
OH	1,275	271	15	20	9	52	63	67	44
OK	710	159	8	12	1	37	31	44	26
OR	601	215	6	6	2	81	50	58	12
PA	1,179	457	23	33	20	115	90	80	95
RI	52	25	1	6	4	6	2	4	2
SC	1,094	401	28	17	1	108	48	135	64
SD	137	47	6	0	1	17	8	10	5
TN	1,314	219	3	12	1	61	52	53	37
TX	4,408	1,521	60	156	108	401	297	379	116
UT	319	112	9	11	0	35	20	26	11
VT	76	20	0	1	0	1	5	7	6
VA	1,008	299	18	31	5	120	58	32	33
WA	733	250	9	23	26	55	63	57	16
WV	264	72	9	1	0	11	15	25	11
WI	596	171	4	13	5	41	50	41	17
WY	134	60	11	4	0	12	12	12	8
USA	42,514	12,151	530	1,042	632	3,114	2,613	2,601	1,545
PR	271	88	10	14	0	28	21	12	3

*Includes speeding-related fatalities that occurred on roadways for which the function class was unknown or unknown whether rural or urban interstate.

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Table 122. Rural Fatal Crashes, by State and Average Emergency Medical Services Response Times

State	Average Response Time (Minutes)*								Total Fatal Crashes
	Time of Crash to EMS Notification		EMS Notification to EMS Arrival at Crash Scene		EMS Arrival at Crash Scene to Hospital Arrival		Time of Crash to Hospital Arrival		
	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	
AL	6.18	25.3	16.94	16.2	44.05	63.7	69.15	64.7	501
AK	3.53	52.8	17.79	47.2	52.40	72.2	53.88	77.8	36
AZ	4.42	26.6	16.92	19.1	49.56	85.7	62.14	86.9	335
AR	6.36	16.4	14.43	15.2	46.46	78.8	62.33	80.9	330
CA	7.34	82.1	21.03	90.6	NA	NA	NA	NA	1,037
CO	3.94	58.8	13.15	59.2	41.73	80.5	54.34	81.3	267
CT	2.39	34.3	7.72	17.1	39.40	57.1	48.93	57.1	35
DE	2.42	41.1	8.60	6.8	22.11	27.4	31.28	27.4	73
DC	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL	2.68	96.5	11.90	95.8	NA	NA	NA	NA	717
GA	6.22	23.2	11.18	5.6	42.50	60.0	55.94	60.8	587
HI	3.27	8.3	15.83	0.0	44.00	66.7	79.00	75.0	12
ID	4.01	14.4	13.55	8.9	40.00	97.9	52.00	97.9	146
IL	3.96	28.5	11.16	25.2	NA	NA	NA	NA	337
IN	NA	NA	NA	NA	NA	NA	NA	NA	521
IA	5.30	67.3	12.94	63.6	32.95	71.5	51.28	72.0	214
KS	8.48	22.7	12.01	14.7	38.03	56.4	53.59	58.3	211
KY	6.20	20.7	11.51	1.3	37.41	42.2	51.96	47.4	445
LA	6.38	56.1	15.03	51.1	45.23	72.2	61.92	72.5	374
ME	4.58	39.9	12.49	26.6	43.59	50.3	58.49	51.0	143
MD	NA	NA	NA	NA	NA	NA	NA	NA	27
MA	4.05	12.5	8.50	0.0	33.31	45.8	46.46	45.8	24
MI	4.26	49.5	11.63	46.0	NA	NA	NA	NA	396
MN	4.53	10.4	10.54	7.7	37.96	53.6	50.64	55.9	222
MS	3.82	82.2	19.45	81.9	28.50	83.6	47.99	84.0	426
MO	8.49	44.2	14.96	35.6	45.41	57.0	63.93	60.7	491
MT	10.79	16.7	13.93	4.2	40.34	51.4	54.25	55.6	144

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Table 122. Rural Fatal Crashes, by State and Average Emergency Medical Services Response Times (Continued)

State	Average Response Time (Minutes)*								Total Fatal Crashes
	Time of Crash to EMS Notification		EMS Notification to EMS Arrival at Crash Scene		EMS Arrival at Crash Scene to Hospital Arrival		Time of Crash to Hospital Arrival		
	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	
NE	4.84	30.0	11.27	27.7	31.77	50.0	46.28	50.8	130
NV	58.00	98.2	4.00	99.1	86.00	99.1	NA	NA	110
NH	2.80	5.4	10.11	16.2	43.03	52.7	55.83	52.7	74
NJ	5.73	33.9	9.78	12.9	40.87	50.0	50.87	51.6	62
NM	NA	NA	NA	NA	NA	NA	NA	NA	231
NY	3.12	16.2	11.62	12.7	42.12	70.3	55.78	69.9	259
NC	12.14	89.0	10.70	56.2	40.55	83.2	46.59	84.0	882
ND	7.82	30.0	16.91	12.5	42.71	57.5	62.90	61.3	80
OH	5.97	30.0	11.13	5.2	38.51	44.0	53.70	44.6	496
OK	13.76	88.5	21.97	80.3	51.35	83.1	70.46	84.7	366
OR	2.64	24.7	12.89	21.0	47.48	82.1	63.98	82.5	291
PA	6.39	68.6	11.83	46.2	44.51	73.0	56.01	74.4	437
RI	3.44	25.0	7.00	0.0	33.00	16.7	41.90	16.7	12
SC	NA	NA	NA	NA	NA	NA	NA	NA	569
SD	9.68	27.7	15.08	18.1	36.59	51.1	53.88	56.4	94
TN	5.58	95.1	32.71	92.9	21.78	98.2	41.11	98.2	492
TX	6.37	97.9	15.14	97.5	41.47	97.8	62.39	97.7	1,427
UT	7.13	19.6	17.99	9.8	44.00	60.8	58.41	63.7	102
VT	4.10	36.1	10.79	0.0	42.77	49.2	55.93	50.8	61
VA	NA	NA	NA	NA	NA	NA	NA	NA	475
WA	NA	NA	NA	NA	NA	NA	NA	NA	276
WV	7.61	70.1	17.34	69.5	42.00	86.0	65.91	86.0	164
WI	5.94	29.3	10.60	30.7	39.69	79.7	51.61	77.7	300
WY	7.74	30.0	19.46	21.0	44.68	66.0	63.03	69.0	100
USA	5.90	63.0	13.21	56.4	40.82	81.3	55.95	82.0	15,541
PR	7.08	81.5	10.27	83.7	NA	NA	NA	NA	135

*Includes fatal crashes for which both times were known.

NA = not available or not applicable.

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Table 123. Urban Fatal Crashes, by State and Average Emergency Medical Services Response Times

State	Average Response Time (Minutes)*								Total Fatal Crashes
	Time of Crash to EMS Notification		EMS Notification to EMS Arrival at Crash Scene		EMS Arrival at Crash Scene to Hospital Arrival		Time of Crash to Hospital Arrival		
	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	
AL	3.42	17.5	11.06	10.0	28.68	63.7	45.66	63.7	411
AK	2.24	44.7	5.96	36.8	23.93	60.5	32.64	63.2	38
AZ	2.35	44.2	6.84	39.8	22.66	66.6	29.75	67.5	799
AR	3.75	13.4	7.74	12.6	31.33	81.8	44.70	81.8	253
CA	6.43	86.1	18.03	92.8	95.00	100.0	35.00	99.6	3,062
CO	2.28	24.0	5.97	24.9	17.99	57.7	25.37	57.9	430
CT	2.33	49.7	7.37	43.7	26.47	64.3	35.35	65.4	286
DE	3.37	22.9	6.84	18.6	15.42	45.7	24.67	48.6	70
DC	2.57	25.0	4.70	17.9	25.33	57.1	31.82	60.7	28
FL	2.38	97.7	8.05	97.2	NA	NA	NA	NA	2,570
GA	5.69	28.1	8.59	20.1	31.11	56.3	43.30	57.2	1,090
HI	3.61	5.1	8.53	1.0	28.86	33.7	40.62	33.7	98
ID	2.02	8.3	6.71	0.0	53.20	89.6	58.40	89.6	48
IL	2.54	36.0	6.66	35.3	NA	NA	NA	NA	802
IN	NA	NA	NA	NA	NA	NA	NA	NA	362
IA	1.79	53.8	5.79	47.3	23.33	52.7	30.02	53.8	91
KS	3.38	14.5	6.23	9.9	28.95	46.1	38.19	46.7	152
KY	2.93	12.6	6.78	3.2	28.53	33.2	36.96	33.2	247
LA	4.21	58.6	8.72	54.7	31.19	69.4	41.26	69.8	464
ME	2.35	23.1	6.80	23.1	24.50	38.5	34.81	38.5	26
MD	NA	NA	NA	NA	NA	NA	NA	NA	499
MA	3.50	17.4	6.27	1.0	29.13	34.9	36.86	36.5	384
MI	2.95	57.7	6.36	56.5	19.00	99.8	19.00	99.8	650
MN	2.22	9.3	6.95	11.9	24.95	38.9	31.91	40.4	193
MS	3.95	79.2	10.90	79.2	28.56	81.3	43.44	81.3	192
MO	4.32	34.3	7.80	27.5	25.46	44.8	36.76	46.7	469
MT	2.23	7.9	7.47	10.5	24.60	47.4	33.75	47.4	38

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Table 123. Urban Fatal Crashes, by State and Average Emergency Medical Services Response Times (Continued)

State	Average Response Time (Minutes)*								Total Fatal Crashes
	Time of Crash to EMS Notification		EMS Notification to EMS Arrival at Crash Scene		EMS Arrival at Crash Scene to Hospital Arrival		Time of Crash to Hospital Arrival		
	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	Average	Percentage Unknown	
NE	1.92	9.5	5.03	9.5	23.41	25.0	29.90	26.2	84
NV	3.57	68.5	6.75	67.4	21.43	68.5	31.33	68.9	273
NH	1.27	12.7	7.88	7.9	26.98	31.7	33.81	31.7	63
NJ	4.52	25.0	7.34	13.4	33.39	40.5	42.93	42.4	575
NM	NA	NA	NA	NA	1.00	99.5	42.00	99.5	188
NY	2.64	37.1	7.21	43.0	27.92	70.0	35.21	70.0	844
NC	7.55	71.0	7.04	55.0	27.15	77.8	35.29	78.5	618
ND	3.42	25.0	6.46	18.8	22.83	25.0	32.83	25.0	16
OH	4.52	16.2	5.92	4.3	22.55	36.0	31.48	36.9	677
OK	4.21	79.8	11.95	69.3	31.71	69.3	42.74	70.8	277
OR	2.97	24.4	7.08	27.5	25.34	69.8	36.84	69.8	262
PA	3.32	43.9	7.05	29.3	28.91	54.0	37.36	54.8	652
RI	4.79	23.7	6.47	0.0	22.91	39.5	31.87	39.5	38
SC	NA	NA	NA	NA	NA	NA	NA	NA	450
SD	2.67	22.2	7.45	18.5	27.63	40.7	37.31	40.7	27
TN	10.29	96.1	22.63	96.3	25.60	97.9	41.64	98.1	723
TX	2.94	96.9	7.57	96.6	29.15	97.0	37.92	96.9	2,533
UT	1.99	9.8	5.72	3.6	25.05	36.6	32.38	37.6	194
VT	3.18	8.3	5.83	0.0	33.86	41.7	41.86	41.7	12
VA	NA	NA	NA	NA	NA	NA	NA	NA	468
WA	NA	NA	NA	NA	NA	NA	NA	NA	409
WV	7.34	57.8	7.00	65.1	30.47	77.1	41.05	77.1	83
WI	5.29	46.6	6.22	49.4	26.73	76.1	36.16	76.5	247
WY	4.31	23.5	6.07	17.6	29.78	47.1	38.67	47.1	17
USA	3.76	64.6	7.59	62.5	27.12	80.1	36.55	80.4	23,482
PR	7.92	80.6	10.38	80.6	NA	NA	NA	NA	124

*Includes crashes for which both times were known.

NA = not available.

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Table 124. People Killed, Population, and Fatality Rates in Cities With Populations of 150,000 or Greater

City	State	Fatalities			Population	Fatality Rate per 100,000 Population	
		Total Killed	Pedestrians Killed			Total	Pedestrian
			Number	Percentage of Total Killed			
New York	NY	238	110	46.2	8,335,897	2.86	1.32
Los Angeles	CA	354	153	43.2	3,822,238	9.26	4.00
Chicago	IL	192	54	28.1	2,665,039	7.20	2.03
Houston	TX	323	111	34.4	2,302,878	14.03	4.82
Phoenix	AZ	311	117	37.6	1,644,409	18.91	7.12
Philadelphia	PA	142	60	42.3	1,567,258	9.06	3.83
San Antonio	TX	203	66	32.5	1,472,909	13.78	4.48
San Diego	CA	118	54	45.8	1,381,162	8.54	3.91
Dallas	TX	228	72	31.6	1,299,544	17.54	5.54
Austin	TX	119	47	39.5	974,447	12.21	4.82
Jacksonville	FL	149	42	28.2	971,319	15.34	4.32
San Jose	CA	63	26	41.3	971,233	6.49	2.68
Fort Worth	TX	121	31	25.6	956,709	12.65	3.24
Columbus	OH	93	26	28.0	907,971	10.24	2.86
Charlotte	NC	102	24	23.5	897,720	11.36	2.67
Indianapolis	IN	134	37	27.6	880,621	15.22	4.20
San Francisco	CA	42	19	45.2	808,437	5.20	2.35
Seattle	WA	39	19	48.7	749,256	5.21	2.54
Denver	CO	74	20	27.0	713,252	10.38	2.80
Oklahoma City	OK	88	28	31.8	694,800	12.67	4.03
Nashville-Davidson	TN	112	43	38.4	683,622	16.38	6.29
El Paso	TX	71	25	35.2	677,456	10.48	3.69
Washington	DC	32	16	50.0	671,803	4.76	2.38
Las Vegas	NV	51	13	25.5	656,274	7.77	1.98
Boston	MA	24	11	45.8	650,706	3.69	1.69
Portland	OR	62	27	43.5	635,067	9.76	4.25
Louisville-Jefferson Co.	KY	119	31	26.1	624,444	19.06	4.96
Memphis	TN	228	83	36.4	621,056	36.71	13.36
Detroit	MI	121	36	29.8	620,376	19.50	5.80
Baltimore	MD	46	18	39.1	569,931	8.07	3.16
Milwaukee	WI	85	24	28.2	563,305	15.09	4.26
Albuquerque	NM	101	37	36.6	561,008	18.00	6.60
Tucson	AZ	142	54	38.0	546,574	25.98	9.88
Fresno	CA	65	30	46.2	545,567	11.91	5.50
Sacramento	CA	77	34	44.2	528,001	14.58	6.44
Mesa	AZ	66	20	30.3	512,498	12.88	3.90
Kansas City	MO	87	18	20.7	509,297	17.08	3.53
Atlanta	GA	101	37	36.6	499,127	20.24	7.41
Colorado Springs	CO	53	7	13.2	486,248	10.90	1.44

Source: Population—Census Bureau

5. States

Table 124. People Killed, Population, and Fatality Rates in Cities With Populations of 150,000 or Greater (Continued)

City	State	Fatalities			Population	Fatality Rate per 100,000 Population	
		Total Killed	Pedestrians Killed			Total	Pedestrian
			Number	Percentage of Total Killed			
Omaha	NE	34	9	26.5	485,153	7.01	1.86
Raleigh	NC	54	23	42.6	476,587	11.33	4.83
Virginia Beach	VA	30	6	20.0	455,618	6.58	1.32
Long Beach	CA	59	23	39.0	451,307	13.07	5.10
Miami	FL	69	22	31.9	449,514	15.35	4.89
Oakland	CA	45	16	35.6	430,553	10.45	3.72
Minneapolis	MN	30	7	23.3	425,096	7.06	1.65
Tulsa	OK	66	20	30.3	411,867	16.02	4.86
Bakersfield	CA	55	28	50.9	410,647	13.39	6.82
Tampa	FL	67	19	28.4	398,173	16.83	4.77
Wichita	KS	50	15	30.0	396,192	12.62	3.79
Arlington	TX	26	8	30.8	394,602	6.59	2.03
Aurora	CO	48	20	41.7	393,537	12.20	5.08
New Orleans	LA	73	36	49.3	369,749	19.74	9.74
Cleveland	OH	49	10	20.4	361,607	13.55	2.77
Anaheim	CA	35	10	28.6	344,461	10.16	2.90
Honolulu	HI	17	9	52.9	343,421	4.95	2.62
Henderson	NV	6	2	33.3	331,415	1.81	0.60
Stockton	CA	28	10	35.7	321,819	8.70	3.11
Riverside	CA	58	14	24.1	320,764	18.08	4.36
Lexington-Fayette	KY	38	4	10.5	320,347	11.86	1.25
Corpus Christi	TX	32	7	21.9	316,239	10.12	2.21
Orlando	FL	50	17	34.0	316,081	15.82	5.38
Irvine	CA	8	2	25.0	313,685	2.55	0.64
Cincinnati	OH	40	9	22.5	309,513	12.92	2.91
Santa Ana	CA	19	9	47.4	308,189	6.17	2.92
Newark	NJ	28	9	32.1	305,344	9.17	2.95
St. Paul	MN	20	5	25.0	303,176	6.60	1.65
Pittsburgh	PA	25	5	20.0	302,898	8.25	1.65
Greensboro	NC	42	12	28.6	301,115	13.95	3.99
Lincoln	NE	27	1	3.7	292,627	9.23	0.34
Durham	NC	22	2	9.1	291,928	7.54	0.69
Plano	TX	13	2	15.4	289,547	4.49	0.69
Anchorage	AK	21	6	28.6	287,145	7.31	2.09
Jersey City	NJ	5	1	20.0	286,670	1.74	0.35
St. Louis	MO	79	20	25.3	286,578	27.57	6.98
Chandler	AZ	24	4	16.7	280,711	8.55	1.42
North Las Vegas	NV	39	3	7.7	280,543	13.90	1.07
Chula Vista	CA	18	3	16.7	279,170	6.45	1.07

Source: Population—Census Bureau

5. States

Table 124. People Killed, Population, and Fatality Rates in Cities With Populations of 150,000 or Greater (Continued)

City	State	Fatalities			Population	Fatality Rate per 100,000 Population	
		Total Killed	Pedestrians Killed			Total	Pedestrian
			Number	Percentage of Total Killed			
Buffalo	NY	28	4	14.3	276,486	10.13	1.45
Gilbert	AZ	17	1	5.9	275,346	6.17	0.36
Reno	NV	21	10	47.6	273,448	7.68	3.66
Madison	WI	14	2	14.3	272,903	5.13	0.73
Fort Wayne	IN	19	1	5.3	267,927	7.09	0.37
Toledo	OH	29	2	6.9	266,301	10.89	0.75
Lubbock	TX	35	9	25.7	263,930	13.26	3.41
St. Petersburg	FL	40	10	25.0	261,256	15.31	3.83
Laredo	TX	21	3	14.3	256,187	8.20	1.17
Irving	TX	20	9	45.0	254,715	7.85	3.53
Chesapeake	VA	14	1	7.1	252,488	5.54	0.40
Glendale	AZ	41	13	31.7	252,136	16.26	5.16
Winston-Salem	NC	24	7	29.2	251,350	9.55	2.78
Scottsdale	AZ	19	4	21.1	243,050	7.82	1.65
Garland	TX	22	4	18.2	240,854	9.13	1.66
Boise City	ID	4	0	0.0	236,634	1.69	0.00
Norfolk	VA	23	13	56.5	232,995	9.87	5.58
Port St. Lucie	FL	13	5	38.5	231,790	5.61	2.16
Spokane	WA	15	5	33.3	230,160	6.52	2.17
Richmond	VA	34	11	32.4	229,395	14.82	4.80
Fremont	CA	11	5	45.5	223,871	4.91	2.23
Huntsville	AL	26	6	23.1	221,933	11.72	2.70
Tacoma	WA	25	5	20.0	221,776	11.27	2.25
Baton Rouge	LA	59	19	32.2	221,453	26.64	8.58
Santa Clarita	CA	4	0	0.0	221,345	1.81	0.00
San Bernardino	CA	57	20	35.1	220,328	25.87	9.08
Hialeah	FL	18	4	22.2	220,292	8.17	1.82
Frisco	TX	4	0	0.0	219,587	1.82	0.00
Modesto	CA	11	1	9.1	218,069	5.04	0.46
Cape Coral	FL	11	5	45.5	216,992	5.07	2.30
Fontana	CA	37	14	37.8	212,475	17.41	6.59
Moreno Valley	CA	20	7	35.0	211,924	9.44	3.30
Des Moines	IA	21	4	19.0	211,034	9.95	1.90
Rochester	NY	20	9	45.0	209,352	9.55	4.30
Fayetteville	NC	8	2	25.0	208,873	3.83	0.96
Yonkers	NY	7	4	57.1	208,121	3.36	1.92
McKinney	TX	11	1	9.1	207,507	5.30	0.48
Worcester	MA	15	5	33.3	205,319	7.31	2.44
Salt Lake City	UT	36	11	30.6	204,657	17.59	5.37

Source: Population—Census Bureau

5. States

Table 124. People Killed, Population, and Fatality Rates in Cities With Populations of 150,000 or Greater (Continued)

City	State	Fatalities			Population	Fatality Rate per 100,000 Population	
		Total Killed	Pedestrians Killed			Total	Pedestrian
			Number	Percentage of Total Killed			
Little Rock	AR	49	19	38.8	202,864	24.15	9.37
Columbus	GA	25	8	32.0	202,616	12.34	3.95
Augusta-Richmond Co.	GA	33	6	18.2	202,096	16.33	2.97
Sioux Falls	SD	11	3	27.3	202,078	5.44	1.48
Grand Prairie	TX	14	3	21.4	201,843	6.94	1.49
Tallahassee	FL	19	9	47.4	201,731	9.42	4.46
Amarillo	TX	18	2	11.1	201,291	8.94	0.99
Oxnard	CA	4	1	25.0	200,415	2.00	0.50
Peoria	AZ	26	3	11.5	197,866	13.14	1.52
Overland Park	KS	6	1	16.7	197,726	3.03	0.51
Montgomery	AL	42	16	38.1	196,986	21.32	8.12
Birmingham	AL	51	8	15.7	196,910	25.90	4.06
Grand Rapids	MI	12	2	16.7	196,908	6.09	1.02
Knoxville	TN	40	7	17.5	195,889	20.42	3.57
Vancouver	WA	12	3	25.0	194,512	6.17	1.54
Huntington Beach	CA	9	5	55.6	194,310	4.63	2.57
Providence	RI	11	6	54.5	189,563	5.80	3.17
Brownsville	TX	11	2	18.2	189,382	5.81	1.06
Glendale	CA	5	2	40.0	189,221	2.64	1.06
Akron	OH	20	3	15.0	188,509	10.61	1.59
Tempe	AZ	19	7	36.8	185,950	10.22	3.76
Newport News	VA	16	4	25.0	184,306	8.68	2.17
Chattanooga	TN	30	6	20.0	184,086	16.30	3.26
Mobile	AL	29	8	27.6	183,289	15.82	4.36
Fort Lauderdale	FL	54	23	42.6	183,146	29.48	12.56
Cary	NC	0	0	0.0	180,388	0.00	0.00
Shreveport	LA	29	11	37.9	180,153	16.10	6.11
Ontario	CA	19	3	15.8	179,061	10.61	1.68
Eugene	OR	12	3	25.0	177,923	6.74	1.69
Aurora	IL	13	2	15.4	177,866	7.31	1.12
Elk Grove	CA	9	6	66.7	177,558	5.07	3.38
Salem	OR	18	9	50.0	177,487	10.14	5.07
Santa Rosa	CA	9	3	33.3	177,181	5.08	1.69
Clarksville	TN	23	4	17.4	176,974	13.00	2.26
Rancho Cucamonga	CA	17	3	17.6	176,336	9.64	1.70
Oceanside	CA	10	5	50.0	172,199	5.81	2.90
Springfield	MO	26	7	26.9	170,067	15.29	4.12
Pembroke Pines	FL	9	0	0.0	169,876	5.30	0.00
Garden Grove	CA	9	3	33.3	169,254	5.32	1.77

Source: Population—Census Bureau

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Table 124. People Killed, Population, and Fatality Rates in Cities With Populations of 150,000 or Greater (Continued)

City	State	Fatalities			Population	Fatality Rate per 100,000 Population	
		Total Killed	Pedestrians Killed			Total	Pedestrian
			Number	Percentage of Total Killed			
Fort Collins	CO	5	1	20.0	169,249	2.95	0.59
Lancaster	CA	31	6	19.4	169,185	18.32	3.55
Palmdale	CA	21	7	33.3	163,463	12.85	4.28
Murfreesboro	TN	11	3	27.3	162,398	6.77	1.85
Salinas	CA	2	1	50.0	161,020	1.24	0.62
Corona	CA	23	2	8.7	159,567	14.41	1.25
Killeen	TX	10	3	30.0	159,172	6.28	1.88
Hayward	CA	7	3	42.9	156,754	4.47	1.91
Paterson	NJ	7	2	28.6	156,661	4.47	1.28
Macon-Bibb Co.	GA	51	15	29.4	156,197	32.65	9.60
Lakewood	CO	17	4	23.5	156,120	10.89	2.56
Alexandria	VA	8	2	25.0	155,525	5.14	1.29
Roseville	CA	7	3	42.9	154,817	4.52	1.94
Surprise	AZ	19	3	15.8	154,198	12.32	1.95
Springfield	MA	4	2	50.0	154,064	2.60	1.30
Charleston	SC	14	4	28.6	153,672	9.11	2.60
Kansas City	KS	22	3	13.6	153,345	14.35	1.96
Sunnyvale	CA	8	4	50.0	153,091	5.23	2.61
Bellevue	WA	3	0	0.0	152,767	1.96	0.00
Hollywood	FL	30	8	26.7	152,650	19.65	5.24
Denton	TX	11	2	18.2	150,353	7.32	1.33
Escondido	CA	4	1	25.0	150,270	2.66	0.67
Joliet	IL	9	1	11.1	150,033	6.00	0.67

Source: Population—Census Bureau

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Table 125. Fatalities and Fatality Rates, by State, 1975-2022

State	Fatalities									Fatality Rate per 100 Million VMT								
	1975	1985	1995	2000	2005	2010	2015	2022	Difference, 1975-2022	1975	1985	1995	2000	2005	2010	2015	2022	Difference, 1975-2022
AL	902	882	1,114	996	1,148	862	850	988	+10%	3.63	2.51	2.20	1.76	1.92	1.34	1.26	1.38	-62%
AK	112	127	87	106	73	56	65	82	-27%	4.38	3.17	2.11	2.30	1.45	1.17	1.29	1.50	-66%
AZ	670	893	1,035	1,036	1,179	759	897	1,302	+94%	4.19	4.14	2.61	2.11	1.97	1.27	1.38	1.71	-59%
AR	559	534	631	652	654	571	550	643	+15%	4.01	3.12	2.37	2.24	2.05	1.70	1.58	1.67	-58%
CA	4,092	4,960	4,192	3,753	4,333	2,720	3,387	4,428	+8%	3.09	2.39	1.52	1.22	1.32	0.84	1.01	1.40	-55%
CO	581	579	645	681	606	450	547	764	+31%	3.50	2.21	1.84	1.63	1.26	0.96	1.08	1.42	-59%
CT	389	448	317	341	278	320	270	359	-8%	2.13	2.00	1.13	1.11	0.88	1.02	0.85	1.21	-43%
DE	122	104	121	123	133	101	131	162	+33%	3.37	1.94	1.61	1.49	1.40	1.13	1.32	1.64	-51%
DC	70	60	58	48	48	24	23	32	-54%	2.27	1.86	1.67	1.37	1.29	0.67	0.65	0.94	-59%
FL	1,998	2,832	2,805	2,999	3,518	2,444	2,938	3,530	+77%	3.24	3.22	2.19	1.99	1.75	1.25	1.42	1.55	-52%
GA	1,360	1,361	1,488	1,541	1,729	1,247	1,432	1,797	+32%	3.46	2.53	1.74	1.47	1.52	1.12	1.21	1.39	-60%
HI	144	126	130	132	140	113	93	116	-19%	3.47	1.86	1.64	1.55	1.39	1.13	0.90	1.13	-67%
ID	281	255	262	276	275	209	216	215	-23%	4.78	3.31	2.13	2.04	1.85	1.32	1.30	1.12	-77%
IL	2,041	1,534	1,586	1,418	1,363	927	998	1,268	-38%	3.56	2.17	1.68	1.38	1.27	0.88	0.95	1.22	-66%
IN	1,128	974	960	886	938	754	817	949	-16%	3.02	2.39	1.49	1.25	1.31	1.00	1.04	0.99	-67%
IA	670	474	527	445	450	390	320	338	-50%	3.75	2.35	2.03	1.51	1.45	1.24	0.96	1.03	-73%
KS	509	486	442	461	428	431	355	410	-19%	3.29	2.52	1.76	1.64	1.44	1.44	1.13	1.31	-60%
KY	863	712	849	820	985	760	761	744	-14%	3.50	2.50	2.07	1.75	2.08	1.58	1.56	1.55	-56%
LA	934	931	894	938	963	721	752	906	-3%	4.60	2.79	2.31	2.30	2.14	1.59	1.56	1.60	-65%
ME	223	206	187	169	169	161	156	182	-18%	3.14	2.22	1.49	1.19	1.13	1.11	1.07	1.24	-61%
MD	670	729	671	588	614	496	520	564	-16%	2.66	2.19	1.50	1.17	1.09	0.88	0.90	0.99	-63%
MA	864	742	444	433	441	347	344	434	-50%	2.75	1.87	0.92	0.82	0.80	0.64	0.58	0.76	-72%
MI	1,779	1,545	1,530	1,382	1,129	942	967	1,124	-37%	3.06	2.29	1.79	1.41	1.09	0.97	0.99	1.17	-62%
MN	754	608	597	625	559	411	411	444	-41%	2.94	1.86	1.35	1.19	0.98	0.73	0.72	0.77	-74%
MS	546	662	868	949	931	641	677	703	+29%	3.80	3.45	2.94	2.67	2.32	1.61	1.70	1.76	-54%
MO	1,045	931	1,109	1,157	1,257	821	870	1,057	+1%	3.41	2.37	1.87	1.72	1.83	1.16	1.21	1.33	-61%
MT	291	223	215	237	251	189	224	213	-27%	5.08	3.03	2.28	2.40	2.26	1.69	1.81	1.58	-69%

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Table 125. Fatalities and Fatality Rates, by State, 1975-2022 (Continued)

State	Fatalities									Fatality Rate per 100 Million VMT								
	1975	1985	1995	2000	2005	2010	2015	2021	Difference, 1975-2021	1975	1985	1995	2000	2005	2010	2015	2021	Difference, 1975-2021
NE	369	237	254	276	276	190	246	244	-34%	3.29	1.97	1.61	1.53	1.43	0.98	1.22	1.15	-65%
NV	218	259	313	323	427	257	326	416	+91%	4.74	3.42	2.24	1.83	2.06	1.16	1.26	1.50	-68%
NH	151	191	118	126	166	128	114	146	-3%	2.85	2.53	1.11	1.05	1.24	0.98	0.87	1.10	-61%
NJ	1,043	964	774	731	747	556	561	685	-34%	2.15	1.83	1.27	1.08	1.01	0.76	0.74	0.91	-58%
NM	555	535	485	432	488	349	298	466	-16%	5.59	4.03	2.29	1.90	2.04	1.38	1.09	1.74	-69%
NY	2,366	2,006	1,679	1,460	1,434	1,201	1,136	1,175	-50%	3.63	2.22	1.46	1.13	1.03	0.92	0.93	1.02	-72%
NC	1,506	1,482	1,448	1,557	1,547	1,320	1,379	1,630	+8%	4.14	2.97	1.90	1.74	1.53	1.29	1.23	1.37	-67%
ND	167	90	74	86	123	105	131	98	-41%	3.71	1.61	1.13	1.19	1.62	1.27	1.31	1.07	-71%
OH	1,766	1,646	1,360	1,366	1,321	1,080	1,110	1,275	-28%	2.75	2.18	1.35	1.29	1.20	0.97	0.98	1.15	-58%
OK	757	744	669	650	803	668	645	710	-6%	3.33	2.39	1.74	1.50	1.71	1.40	1.35	1.59	-52%
OR	562	559	574	451	487	317	446	601	+7%	3.53	2.61	1.91	1.33	1.38	0.94	1.24	1.64	-54%
PA	2,078	1,771	1,480	1,520	1,616	1,324	1,200	1,179	-43%	3.26	2.35	1.57	1.49	1.50	1.32	1.19	1.18	-64%
RI	110	109	69	80	87	67	45	52	-53%	1.94	1.87	1.00	0.96	1.05	0.81	0.57	0.69	-64%
SC	820	951	881	1,065	1,094	809	979	1,094	+33%	3.98	3.56	2.28	2.34	2.21	1.65	1.89	1.85	-54%
SD	195	130	158	173	186	140	134	137	-30%	3.76	2.07	2.06	2.05	2.22	1.58	1.44	1.35	-64%
TN	1,126	1,101	1,259	1,307	1,270	1,032	962	1,314	+17%	3.42	3.03	2.24	1.99	1.79	1.47	1.25	1.58	-54%
TX	3,372	3,678	3,183	3,779	3,536	3,023	3,582	4,408	+31%	3.99	2.57	1.76	1.72	1.50	1.29	1.39	1.52	-62%
UT	272	303	325	373	282	253	278	319	+17%	3.42	2.52	1.73	1.65	1.12	0.95	0.94	0.93	-73%
VT	143	115	106	76	73	71	57	76	-47%	4.32	2.45	1.71	1.12	0.95	0.98	0.78	1.07	-75%
VA	993	976	900	929	947	740	754	1,008	+2%	2.87	2.04	1.29	1.24	1.18	0.90	0.91	1.23	-57%
WA	758	744	653	631	649	460	551	733	-3%	3.16	2.16	1.33	1.18	1.17	0.80	0.92	1.25	-60%
WV	461	420	376	411	374	315	268	264	-43%	4.36	3.32	2.16	2.14	1.82	1.64	1.35	1.72	-61%
WI	930	744	745	799	815	572	566	596	-36%	3.25	2.03	1.45	1.40	1.36	0.96	0.91	0.90	-72%
WY	210	152	170	152	170	155	145	134	-36%	5.36	2.81	2.41	1.88	1.88	1.66	1.51	1.44	-73%
USA	44,525	43,825	41,817	41,945	43,510	32,999	35,484	42,514	-5%	3.35	2.47	1.73	1.53	1.46	1.11	1.15	1.33	-60%
PR	496	600	595	568	457	340	310	271	-45%	7.27	5.74	3.83	3.23	2.35	1.83	2.13	1.82	-75%

Source: VMT—FHWA

5. States

Restraint Use and Motorcycle Helmet Use Laws

Restraint Use Laws

The first mandatory seat belt use law was enacted in New York in 1984. Adult seat belt use laws are now in effect in 49 States, the District of Columbia, and Puerto Rico. The laws differ from State to State, according to the type and age of the vehicle, occupant age and seating position, etc. The goal of these laws is to promote seat belt use and thereby reduce deaths and injuries in motor vehicle crashes.

In 2022 there were 34 States, the District of Columbia, and Puerto Rico that had primary seat belt laws in effect, enabling law enforcement officers to stop vehicles and write citations when they observed violations of the seat belt law. In 15 States the laws specified secondary enforcement, meaning that law enforcement officers were permitted to write citations only after a vehicle was stopped for some other traffic infraction. New Hampshire is the only State without a seat belt law for adults, although it does have a primary child passenger safety law that covers all drivers and passengers under age 18.

The first mandatory child restraint use law was implemented in Tennessee in 1978. Since 1985 all 50 States and the District of Columbia have had child restraint use laws in effect. Child restraint use laws differ from State to State, in terms of the ages of children covered and in other important ways, including height and weight limits, seating position requirements, and various exemptions and exceptions.

The most current information on seat belt laws and child passenger safety laws is available on the website of the Governors Highway Safety Association (GHSA) at www.ghsa.org.

- Seat belt laws—www.ghsa.org/html/stateinfo/laws/seatbelt_laws.html
- Child passenger safety laws—www.ghsa.org/html/stateinfo/laws/childsafety_laws.html

In 2022 seat belt use rates in the United States ranged from 75.6 percent in Virginia to 96.5 percent in Oregon. Twenty-six States and the District of Columbia achieved belt use rates of 90.0 percent or higher. These results are from probability-based observational surveys conducted by 50 States, the District of Columbia, and U.S. Territories. The nationwide seat belt use rate in 2022 was 91.6 percent, as measured by NHTSA's National Occupant Protection Use Survey (NOPUS). NOPUS is a national probability-based survey, which is independent from State belt use surveys. Observed seat belt use rates for the States and the Nation in 2022 can be found in [Seat Belt Use in 2022—Use Rates in the States and Territories](#) (NCSA, 2023a).

Motorcycle Helmet Use Laws

In 2022 there were 18 States, the District of Columbia, and Puerto Rico that required helmet use by all motorcyclists. In 29 States helmet use was required for only a subset of motorcyclists (typically, motorcyclists under age 18), and three States (Illinois, Iowa, and New Hampshire) do not require helmet use for motorcyclists of any age.

The most current information on helmet use laws is available on the GHSA website at www.ghsa.org/state-laws/issues/motorcyclists.

According to results from NOPUS, the overall rate of DOT-compliant motorcycle helmet use in the United States was 66.5 percent in 2022. Helmet use continued to be significantly higher in States that required all motorcyclists to be helmeted than in other States. In 2022 DOT compliant motorcycle helmet use in States requiring all to use helmets was 81.5 percent compared to 56.2 percent in other

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States. Information on motorcycle helmet use in 2022 can be found in [*Motorcycle Helmet Use in 2022—Overall Results*](#) (NCSA, 2023b).

Appendix

Appendix A: FARS Data Elements

2022 Fatality Analysis Reporting System Data Elements

Crash Level

Arrival Time EMS	Number of Forms Submitted for Persons Not in Motor Vehicles
Atmospheric Conditions	Number of Motor Vehicle Occupant Forms Submitted
City	Number of Vehicle Forms Submitted
County	Rail Grade Crossing Identifier
Crash Date	Related Factors—Crash Level
Crash Events	Relation to Junction
Crash Time	Relation to Trafficway
EMS Time at Hospital	Road Ownership
First Harmful Event	Route Signing
Global Position	School-Bus-Related
Land Use and Functional System	Special Jurisdiction
Light Condition	State
Manner of Collision	Trafficway Identifier
Milepoint	Type of Intersection
National Highway System	Work Zone
Notification Time EMS	

Vehicle Level

Areas of Impact—Initial Contact Point	Registered Vehicle Owner
Areas of Impact—Damaged Areas	Registration State
Attempted Avoidance Maneuver	Related Factors—Vehicle Level
Body Class	Roadway Alignment
Body Type	Roadway Grade
Bus Use	Roadway Surface Conditions
Cargo Body Type	Roadway Surface Type
Contributing Circumstances, Motor Vehicle	Rollover
Crash Type	Sequence of Events
Critical Event	Special Use
Device Functioning	Speed Limit
Emergency Motor Vehicle Use	Total Lanes in Roadway
Extent of Damage	Traffic Control Device
Final Stage Body Class	Trafficway Description
Fire Occurrence	Trailer Vehicle Identification Number
Gross Vehicle Weight Rating, Power Unit	Travel Speed
Gross Vehicle Weight Rating, Trailer	Underride/Override
Hazardous Material Involvement/Placard	Unit Type
Hit-and-Run	Vehicle Configuration
Jackknife	Vehicle Identification Number
Location of Rollover	Vehicle Make
Most Harmful Event	Vehicle Model
Motor Carrier Identification Number	Vehicle Model Year
Number of Occupants	Vehicle Number
Pre-Event Movement (Prior to Recognition of Critical Event)	Vehicle Removal
Pre-Impact Location	Vehicle Trailing
Pre-Impact Stability	

Appendix A: FARS Data Elements

Driver Level

Commercial Motor Vehicle License Status	Driver's ZIP Code
Compliance with Commercial Driver's License (CDL) Endorsements	License Compliance with Class of Vehicle
Compliance with License Restrictions	Non-CDL License Type/Status
Condition (Impairment) at Time of Crash	Previous DWI Convictions
Date of Oldest Crash, Suspension, Conviction	Previous Other Moving Violation Convictions
Date of Most Recent Crash, Suspension, Conviction	Previous Recorded Crashes
Driver Distracted By	Previous Recorded Suspensions, Revocations, and Withdrawals
Driver Height	Previous Speeding Convictions
Driver Maneuvered to Avoid	Related Factors—Driver Level
Driver Presence	Speeding-Related
Driver Weight	Vehicle Number
Driver's License State	Violations Charged
Driver's Vision Obscured By	

Person (Motor Vehicle Occupant) Level

Age	Helmet Use
Air Bag Deployed	Injury Severity
Alcohol Test	Person Number
Any Indication of Misuse—Restraint System/ Helmet Use	Person Type
Death Date	Police-Reported Alcohol Involvement
Death Time	Police-Reported Drug Involvement
Died at Scene/En Route	Race/Hispanic Origin
Drug Test	Related Factors—Person (Motor Vehicle Occupant) Level
Ejection	Restraint System
Ejection Path	Seating Position
Extrication	Sex
Fatal Injury at Work	Transported to First Medical Facility By

Person (Not Motor Vehicle Occupant) Level

Age	Person Type
Alcohol Test	Police-Reported Alcohol Involvement
Condition (Impairment) at Time of Crash	Police-Reported Drug Involvement
Death Date	Race/Hispanic Origin
Death Time	Related Factors—Person (Not a Motor Vehicle Occupant) Level
Died at Scene/En Route	Sex
Drug Test	Transported to First Medical Facility By
Fatal Injury at Work	Vehicle Number of Motor Vehicle Striking Non-Motorist
Injury Severity	
Non-Motorist Action/Circumstances at Time of Crash	
Non-Motorist Action/Circumstances Prior to Crash	
Non-Motorist Device Type	
Non-Motorist Device Motorization	
Non-Motorist Distracted By	
Non-Motorist Location at Time of Crash	
Non-Motorist Safety Equipment	
Pedestrian/Bike Typing	
Person Number	

Appendix B: CRSS Data Elements

2022 Crash Report Sampling System Data Elements

Crash Level

Atmospheric Conditions	Related Factors—Crash Level
Crash Events	Relation to Junction
Crash Month	(Non-Interchange vs. Interchange)
Crash Time	Relation to Junction (Specific Location)
First Harmful Event	Relation to Trafficway
Interstate Highway	School-Bus-Related
Light Condition	Type of Intersection
Manner of Collision	Urbanicity
Number of Non-Motorists	Work Zone
Number of Vehicle Forms Submitted	

Vehicle Level

Areas of Impact—Initial Contact Point	Pre-Event Movement
Areas of Impact—Damaged Areas	(Prior to Recognition of Critical Event)
Attempted Avoidance Maneuver	Pre-Impact Location
Body Class	Pre-Impact Stability
Body Type	Related Factors—Vehicle Level
Bus Use	Roadway Alignment
Cargo Body Type	Roadway Grade
Contributing Circumstances, Motor Vehicle	Roadway Surface Conditions
Corrective Action Attempted	Rollover
Crash Type	Sequence of Events
Critical Event	Special Use
Device Functioning	Speed Limit
Emergency Motor Vehicle Use	Total Lanes in Roadway
Extent of Damage	Traffic Control Device
Final Stage Body Class	Trafficway Description
Fire Occurrence	Travel Speed
Gross Vehicle Weight Rating, Power Unit	Unit Type
Gross Vehicle Weight Rating, Trailer	Vehicle Configuration
Hazardous Material Involvement/Placard	Vehicle Identification Number
Hit-and-Run	Vehicle Make
Jackknife	Vehicle Model
Location of Rollover	Vehicle Model Year
Most Harmful Event	Vehicle Number
Motor Carrier Identification Number	Vehicle Removal
Number of Occupants	Vehicle Trailing
Number of Occupants Coded	

Appendix B: CRSS Data Elements

Driver Level

Condition (Impairment) at Time of Crash
Driver Distracted By
Driver Maneuvered to Avoid
Driver Presence
Driver's Vision Obscured By

Driver's ZIP Code
Related Factors—Driver Level
Speeding-Related
Vehicle Number
Violations Charged

Person (Motor Vehicle Occupant) Level

Age
Air Bag Deployed
Alcohol Test
Any Indication of Misuse—Restraint System/
Helmet Use
Ejection
Helmet Use
Injury Severity
Person Number
Person Type

Police-Reported Alcohol Involvement
Police-Reported Drug Involvement
Related Factors—Person
(Motor Vehicle Occupant) Level
Restraint System
Seating Position
Sex
Transported to First Medical Facility By
Vehicle Number

Person (Not Motor Vehicle Occupant) Level

Age
Alcohol Test
Condition (Impairment) at Time of Crash
Injury Severity
Non-Motorist Action/Circumstances at Time of Crash
Non-Motorist Action/Circumstances Prior to Crash
Non-Motorist Device Type
Non-Motorist Device Motorization
Non-Motorist Distracted By
Non-Motorist Location at Time of Crash
Non-Motorist Safety Equipment

Pedestrian/Bike Typing
Person Number
Person Type
Police-Reported Alcohol Involvement
Police-Reported Drug Involvement
Related Factors—Person
(Not a Motor Vehicle Occupant) Level
Sex
Transported to First Medical Facility By
Vehicle Number of Motor Vehicle Striking
Non-Motorist

Appendix C: CRSS Technical Notes

Standard Errors

The estimates generated using CRSS data are subject to sampling errors, because they are based on a probability sample of crashes instead of all crashes. The sampling error is a measure of the variability of an estimator from its mean under repeated sample selections. The magnitude of the sampling error depends on the study variable, the estimator used, and the CRSS sample design.

The CRSS sample was selected with design features such as stratification, clustering, and unequal selection probabilities (see [Crash Report Sampling System: Sample Design and Weighting](#) (Zhang, Noh, et al., 2019a) for more details). As a result, the CRSS sample is not a simple random sample. Failing to consider these design features in the estimation can cause bias in both the CRSS point estimates and the associated standard error estimates.

Estimation methods and computer software have been developed to make estimates from complex survey data like CRSS. Specialized procedures for analysis of complex survey data, such as SAS PROC SURVEY procedures and SUDAAN procedures, should be used for CRSS data analysis, along with proper design statements. See [Crash Report Sampling System: Design Overview, Analytic Guidance, and FAQs](#) (Zhang, Subramanian, et al., 2019b) for some basic concepts of complex survey data analysis and examples.

For readers who do not have access to the specialized software, the generalized variance function (GVF) method can be used to generate ballpark standard error estimates for a large quantity of estimates in a simpler way. With the GVF, readers can plug in the point estimate and calculate its estimated standard error directly. In Traffic Safety Facts annual reports for prior years, NHTSA published separate GVF estimates for the NASS GES crash, vehicle, and people characteristics. For more information see Appendix C of [National Automotive Sampling System \(NASS\) General Estimates System \(GES\) Analytical User's Manual 1988-2015](#) (NHTSA, 2019). Information on the GVFs for CRSS, which replaced NASS GES in 2016, can be found in Appendix C of [Crash Report Sampling System: Generalized Variance Functions](#) (Zhang & Diaz, 2020) and Appendix F of [Crash Report Sampling System Analytical User's Manual, 2016-2022](#) (NCSA, 2024).

Unknowns

CRSS data are obtained either directly from an item on the PCR or by interpreting the information provided in the report through reviewing the crash diagram, the officer’s written summary of the crash, or combinations of variables on the PCR. Because of this interpretation, and because the police officer may not have entered some item of information or provided complete information, data can be missing. Prior to 2010 data, two different statistical procedures were used on NASS GES data to complete values for unknown data. These procedures, univariate and hot-deck imputation, are described in a technical report available from NCSA, *Imputation in the NASS General Estimates System* (Shelton, 1993).

Starting with 2010 data and continuing when CRSS replaced NASS GES, a different statistical procedure called imputation by sequential regression replaced the univariate and hot-deck imputation procedures. Imputation by sequential regression uses a software package called IVEware that was developed by the University of Michigan. In this procedure, covariates are selected automatically using the stepwise regression method before the unknown values are imputed. The only exception is vehicle body type, where its unknown values have been imputed by the univariate and hot-deck imputation procedures. As of 2020, vehicle body type is no longer being imputed. Table C1 below gives the reader the proportions of unknown values prior to imputation for variables with imputed values for 2022.

Table C1. Percentage of Unknowns for 2022 CRSS Data Elements

Crash Level			
Atmospheric Condition	3.5%	Light Condition	0.5%
Crash Severity	3.1%	Manner of Collision	0.2%
Day of Week	0.0%	Minute of Crash.....	0.9%
First Harmful Event.....	<0.1%	Relation to Junction—Specific Location.....	<0.1%
Hour of Crash	0.9%	Relation to Trafficway	<0.1%
Vehicle/Driver Level			
Initial Point of Impact	1.5%	Speed Limit	15.2%
Most Harmful Event.....	<0.1%	Traffic Control Device	15.8%
Roadway Surface Condition	9.5%		
Person Level			
Age	7.0%	Seating Position	1.5%
Injury Severity.....	4.5%	Sex.....	5.6%

Note: For some data elements, counts for the CRSS category “Not Reported” were combined with counts for “Unknown” in the frequencies above.

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Motor Vehicle Traffic Fatalities and Fatality Rates, 1899-2022

Year	Total Fatalities	VMT (millions)	Fatality Rate per 100 Million VMT	Year	Total Fatalities	VMT (millions)	Fatality Rate per 100 Million VMT	Year	Total Fatalities	VMT (millions)	Fatality Rate per 100 Million VMT
1899	26	—	—	1941	38,142	333,612	11.43	1983	42,589	1,652,788	2.58
1900	36	—	—	1942	27,007	268,224	10.07	1984	44,257	1,720,269	2.57
1901	54	—	—	1943	22,727	208,192	10.92	1985	43,825	1,774,826	2.47
1902	79	—	—	1944	23,165	212,713	10.89	1986	46,087	1,834,872	2.51
1903	117	—	—	1945	26,785	250,173	10.71	1987	46,390	1,921,204	2.41
1904	172	—	—	1946	31,874	340,880	9.35	1988	47,087	2,025,962	2.32
1905	252	—	—	1947	31,193	370,894	8.41	1989	45,582	2,096,487	2.17
1906	338	—	—	1948	30,775	397,957	7.73	1990	44,599	2,144,362	2.08
1907	581	—	—	1949	30,246	424,461	7.13	1991	41,508	2,172,050	1.91
1908	751	—	—	1950	33,186	458,246	7.24	1992	39,250	2,247,151	1.75
1909	1,174	—	—	1951	35,309	491,093	7.19	1993	40,150	2,296,378	1.75
1910	1,599	—	—	1952	36,088	513,581	7.03	1994	40,716	2,357,588	1.73
1911	2,043	—	—	1953	36,190	544,433	6.65	1995	41,817	2,422,823	1.73
1912	2,968	—	—	1954	33,890	561,963	6.03	1996	42,065	2,484,080	1.69
1913	4,079	—	—	1955	36,688	605,646	6.06	1997	42,013	2,552,233	1.65
1914	4,468	—	—	1956	37,965	627,843	6.05	1998	41,501	2,628,148	1.58
1915	6,779	—	—	1957	36,932	647,004	5.71	1999	41,717	2,690,241	1.55
1916	7,766	—	—	1958	35,331	664,653	5.32	2000	41,945	2,746,925	1.53
1917	9,630	—	—	1959	36,223	700,480	5.17	2001	42,196	2,795,610	1.51
1918	10,390	—	—	1960	36,399	718,762	5.06	2002	43,005	2,855,508	1.51
1919	10,896	—	—	1961	36,285	737,421	4.92	2003	42,884	2,890,221	1.48
1920	12,155	—	—	1962	38,980	766,734	5.08	2004	42,836	2,964,788	1.44
1921	13,253	55,027	24.08	1963	41,723	805,249	5.18	2005	43,510	2,989,430	1.46
1922	14,859	67,697	21.95	1964	45,645	846,298	5.39	2006	42,708	3,014,371	1.42
1923	17,870	84,995	21.02	1965	47,089	887,812	5.30	2007	41,259	3,031,124	1.36
1924	18,400	104,838	17.55	1966	50,894	925,899	5.50	2008	37,423	2,976,528	1.26
1925	20,771	122,346	16.98	1967	50,724	964,005	5.26	2009	33,883	2,956,764	1.15
1926	22,194	140,735	15.77	1968	52,725	1,015,869	5.19	2010	32,999	2,967,266	1.11
1927	24,470	158,453	15.44	1969	53,543	1,061,791	5.04	2011	32,479	2,945,194	1.10
1928	26,557	172,856	15.36	1970	52,627	1,109,724	4.74	2012	33,782	2,963,497	1.14
1929	29,592	197,720	14.97	1971	52,542	1,178,811	4.46	2013	32,893	2,982,941	1.10
1930	31,204	206,320	15.12	1972	54,589	1,259,786	4.33	2014	32,744	3,020,377	1.08
1931	31,963	216,151	14.79	1973	54,052	1,313,110	4.12	2015	35,484	3,089,841	1.15
1932	27,979	200,517	13.95	1974	45,196	1,280,544	3.53	2016	37,806	3,173,815	1.19
1933	29,746	200,642	14.83	1975	44,525	1,327,664	3.35	2017	37,473	3,210,248	1.17
1934	34,240	215,563	15.88	1976	45,523	1,402,380	3.25	2018	36,835	3,240,327	1.14
1935	34,494	228,568	15.09	1977	47,878	1,467,027	3.26	2019	36,355	3,261,772	1.11
1936	36,126	252,128	14.33	1978	50,331	1,544,704	3.26	2020	39,007	2,903,622	1.34
1937	37,819	270,110	14.00	1979	51,093	1,529,133	3.34	2021	43,230	3,132,411	1.38
1938	31,083	271,177	11.46	1980	51,091	1,527,295	3.35	2022	42,514	3,196,191	1.33
1939	30,895	285,402	10.83	1981	49,301	1,555,308	3.17				
1940	32,914	302,188	10.89	1982	43,945	1,595,010	2.76				

Total Traffic Fatalities (1899-2022): 3,955,601

Sources: **Traffic fatalities, 1899-1974:** National Center for Health Statistics, *HEW and State Accident Summaries* (adjusted to 30-Day Traffic Deaths by NHTSA); **1975-2022:** NHTSA, FARS; VMT—FHWA - Not Available for Years 1899-1920. Note: A traffic fatality is defined as a death that occurs within 30 days after a traffic crash.

Lives Saved by Restraint Use and 21-Year-Old Minimum Legal Drinking Age Laws, and Additional Lives That Would Have Been Saved at 100-Percent Seat Belt and Motorcycle Helmet Use, 1975-2017

Year	Lives Saved, Age 4 and Younger	Lives Saved, Age 5 and Older	Lives Saved, Age 13 and Older	Lives Saved, All Ages	Lives Saved	Additional Lives That Would Have Been Saved at 100 Percent Use	
	Child Restraints	Seat Belts	Frontal Air Bags	Motorcycle Helmets	Minimum Drinking Age Law*	Seat Belts	Motorcycle Helmets
1975	36	978	0	823	412	13,301	1,164
1976	20	796	0	788	436	13,851	1,189
1977	35	682	0	970	474	14,460	1,472
1978	25	679	0	900	509	15,541	1,588
1979	49	594	0	885	575	15,726	1,676
1980	49	575	0	871	595	15,730	1,744
1981	69	548	0	843	633	15,222	1,667
1982	75	678	0	816	578	13,250	1,528
1983	105	809	0	735	609	12,913	1,450
1984	126	1,197	0	813	709	13,227	759
1985	153	2,435	0	788	701	12,508	764
1986	166	4,094	0	807	840	12,728	751
1987	213	5,141	2	667	1,071	12,678	697
1988	248	5,959	5	622	1,148	12,674	644
1989	238	6,333	8	561	1,093	12,256	553
1990	222	6,592	37	655	1,033	11,761	541
1991	253	6,838	71	595	941	10,812	467
1992	292	7,020	108	641	795	10,195	323
1993	313	7,773	190	671	816	10,212	336
1994	420	9,219	309	625	848	9,507	339
1995	408	9,882	536	624	851	9,781	326
1996	480	10,710	783	617	846	9,459	324
1997	444	11,259	973	627	846	9,096	315
1998	438	11,680	1,208	660	861	8,690	369
1999	447	11,941	1,491	745	901	8,809	396
2000	479	12,882	1,716	872	922	8,245	478
2001	388	13,295	1,978	947	927	8,016	558
2002	383	14,264	2,324	992	922	6,837	576
2003	447	15,095	2,519	1,173	918	6,151	651
2004	455	15,548	2,660	1,324	927	5,874	673
2005	424	15,688	2,752	1,554	882	5,667	731
2006	427	15,458	2,824	1,667	888	5,468	756
2007	388	15,223	2,800	1,788	831	5,048	805
2008	286	13,312	2,557	1,836	716	4,171	827
2009	307	12,757	2,481	1,486	636	3,690	733
2010	303	12,670	2,403	1,551	560	3,356	711
2011	262	12,071	2,341	1,622	543	3,396	707
2012	285	12,386	2,422	1,715	537	3,030	782
2013	263	12,644	2,398	1,640	507	2,771	717
2014	253	12,801	2,400	1,673	486	2,877	661
2015	273	14,062	2,597	1,800	542	2,715	742
2016	334	14,753	2,774	1,885	556	2,471	805
2017	325	14,955	2,790	1,872	538	2,549	749
Total	11,606	374,276	50,457	45,746	31,959	386,719	34,044

*Estimated reductions in deaths that resulted from the presence of laws establishing a minimum legal age of 21 years for the consumption of alcoholic beverages.

The table above presents estimates of the lives saved in 2017 and previous years (2018 to 2022 not available) by various protective devices or laws. The estimates were obtained by combining information from fatal traffic crashes with estimates of the effectiveness of each device or law in saving lives. For seat belts and motorcycle helmets, the table also estimates the numbers of additional lives that could have been saved if the devices had been used by more people.

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