



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



Traffic Safety Facts

2022 Data



DOT HS 813 573

May 2024

Occupant Protection in Passenger Vehicles

In this fact sheet for 2022 the information is presented as follows.

- [Overview](#)
- [Occupant Characteristics](#)
 - [Passenger Vehicle Types](#)
 - [Age and Sex](#)
 - [Seating Position](#)
- [Restraint Use and Benefits](#)
 - [Seat Belts](#)
 - [Frontal Air Bags](#)
 - [Child Restraints](#)
- [State](#)
- [Restraint Use Laws](#)
- [Important Safety Reminders](#)

Occupant protection discussed in this fact sheet includes seat belts, car seats for children under 5 years old, and frontal air bags in passenger vehicles. Passenger vehicles are passenger cars and light trucks (pickups, SUVs, and vans) with gross vehicle weight ratings (GVWRs) of 10,000 pounds or less. Vehicle occupants are drivers and passengers.

Key Findings

- Fifty percent of passenger vehicle occupants killed in traffic crashes in 2022 were unrestrained (based on known restraint use).
- In traffic crashes in 2022, considering known driver restraint use by passenger vehicle type, 61 percent of pickup drivers who were killed were unrestrained, compared to 48 percent of SUV drivers, 46 percent of passenger car drivers, and 38 percent of van drivers.
- Sixty-one percent (based on known restraint use) of passenger vehicle occupant fatalities in the 25-to-34 age group in traffic crashes in 2022 were unrestrained — the highest percentage of all age groups in this report.
- In traffic crashes in 2022, among passenger vehicle occupants with known restraint use, 54 percent of male fatalities were unrestrained as compared to 41 percent of females.
- In 2022 among passenger vehicle occupant traffic fatalities with known restraint use, 48 percent seated in the front row and 60 percent of those in the second row were unrestrained.
- Among passenger vehicle occupant fatalities in traffic crashes in 2022 with known restraint use, 43 percent were unrestrained during the day compared to 57 percent at night.

This fact sheet contains information on fatal motor vehicle traffic crashes based on data from the Fatality Analysis Reporting System (FARS). Refer to the end of this publication for more information on FARS.

Due to a vehicle classification change, the 2020 and later-year vehicle type classifications are not comparable to 2019 and earlier-year vehicle type classifications. This change affects any analysis with a vehicle component to it. Refer to the end of this publication for more information on Product Information Catalog and Vehicle Listing (vPIC).

A motor vehicle traffic crash is defined as an incident that involved one or more motor vehicles in-transport that originated on or had a harmful event (injury or

damage) on a public trafficway, such as a road or highway. Crashes that occurred on private property not regularly used by the public for transport, including some parts of parking lots and driveways, are excluded. The terms “motor vehicle traffic crash” and “traffic crash” are used interchangeably in this document.

Overview

According to NHTSA’s 2022 National Occupant Protection Use Survey (NOPUS, Report No. DOT HS 813 407), the estimated seat belt use rate over the decade 2013 to 2022 increased from 87.2 percent in 2013 to 91.6 percent in 2022. NOPUS provides the only nationwide probability-based estimate of observed seat belt use in the United States. This represents estimates of observed front seat occupant (driver and passenger) seat belt use during daylight hours (7 a.m. to 6 p.m.) and does not necessarily represent restraint use among occupants involved in crashes.

Restraint use for passenger vehicle occupants killed in traffic crashes from 2013 to 2022 is shown in Table 1. There were 42,514 traffic fatalities in the United States in 2022, of which 25,420 (60%) were occupants of passenger vehicles. Of the 25,420 killed in 2022, there were 11,410 (45%) who were restrained and 11,302 (44%) who were unrestrained at the time of the crashes. Restraint use was not known for the remaining 2,708 (11%) occupants killed. Considering only occupant fatalities whose restraint use was known, 50 percent were restrained and 50 percent were unrestrained. The number of unrestrained passenger vehicle occupants killed in 2022 declined 4.8 percent compared to 2021.

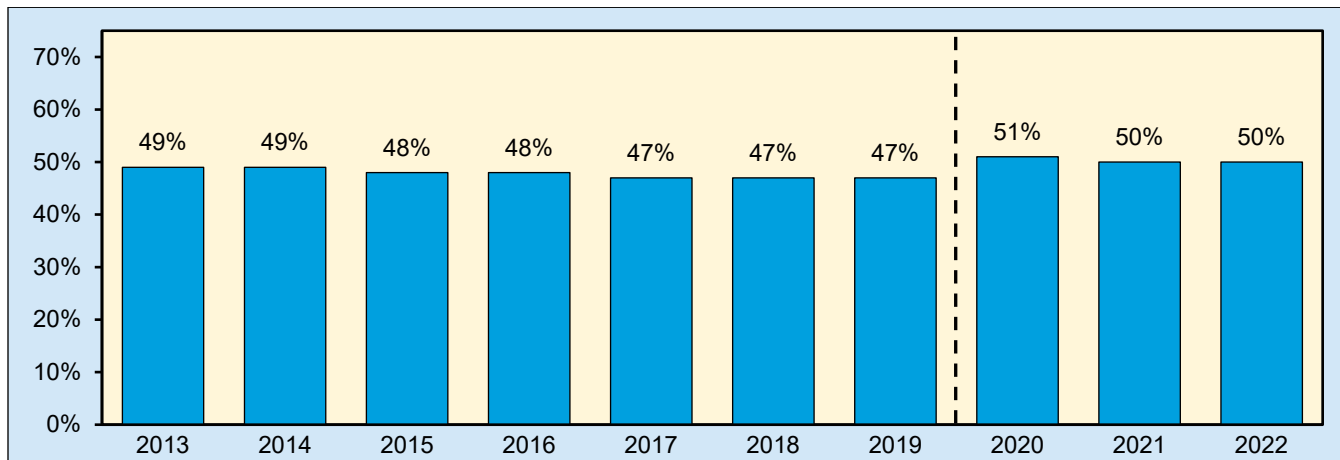
Table 1. Passenger Vehicle Occupants Killed in Traffic Crashes, by Restraint Use, 2013–2022

| Year | Restraint Use | | | | | | Total | | Percent Based on Known Restraint Use | |
|------|---------------|---------|--------------|---------|---------|---------|--------|---------|--------------------------------------|--------------|
| | Restrained | | Unrestrained | | Unknown | | | | | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Restrained | Unrestrained |
| 2013 | 9,840 | 46% | 9,622 | 45% | 1,761 | 8% | 21,223 | 100% | 51% | 49% |
| 2014 | 9,961 | 47% | 9,410 | 45% | 1,679 | 8% | 21,050 | 100% | 51% | 49% |
| 2015 | 10,763 | 48% | 9,975 | 44% | 1,903 | 8% | 22,641 | 100% | 52% | 48% |
| 2016 | 11,343 | 48% | 10,463 | 44% | 1,981 | 8% | 23,787 | 100% | 52% | 48% |
| 2017 | 11,488 | 49% | 10,116 | 43% | 2,059 | 9% | 23,663 | 100% | 53% | 47% |
| 2018 | 11,055 | 48% | 9,845 | 43% | 1,945 | 9% | 22,845 | 100% | 53% | 47% |
| 2019 | 10,891 | 49% | 9,523 | 43% | 1,958 | 9% | 22,372 | 100% | 53% | 47% |
| 2020 | 10,532 | 44% | 10,925 | 46% | 2,457 | 10% | 23,914 | 100% | 49% | 51% |
| 2021 | 11,899 | 45% | 11,877 | 45% | 2,689 | 10% | 26,465 | 100% | 50% | 50% |
| 2022 | 11,410 | 45% | 11,302 | 44% | 2,708 | 11% | 25,420 | 100% | 50% | 50% |

Source: FARS 2013–2021 Final File, 2022 Annual Report File (ARF)

Note: Percentages may not add up to 100 percent due to individual rounding. Due to a vehicle classification change, the 2020 and later year data are not comparable to 2019 and earlier years.

The percentages of unrestrained passenger vehicle occupants killed in motor vehicle traffic crashes are shown in Figure 1. Among passenger vehicle occupants killed, when restraint use was known, the percentage of unrestrained deaths stayed the same in 2022 compared to 2021 at 50 percent.

Figure 1. Percentages of Unrestrained* Passenger Vehicle Occupants Killed in Traffic Crashes, 2013–2022

Source: FARS 2013–2021 Final File, 2022 ARF

*Based on known restraint use.

Note: Due to a vehicle classification change, the 2020 and later year data are not comparable to 2019 and earlier years.

Occupant Characteristics

Passenger Vehicle Types

Table 2 shows traffic fatalities separately for drivers and passengers for each passenger vehicle type. Seventy-six percent of the passenger vehicle occupants killed in 2022 were drivers, and 24 percent were passengers.

In 2022 there were 19,362 passenger vehicle drivers killed in traffic crashes, the majority (50%) in passenger cars. Among the 17,380 passenger vehicle driver fatalities for whom restraint use was known, 50 percent were unrestrained. However, the percentage of drivers killed who were unrestrained differed by vehicle type: 61 percent of pickup drivers, 48 percent of SUV drivers, 46 percent of passenger car drivers, and 38 percent of van drivers.

Table 2. Drivers and Passengers Killed in Traffic Crashes, by Passenger Vehicle Type and Restraint Use, 2022

| Passenger Vehicle Type | | Restraint Use | | | | | | Total | | Percent Based on Known Restraint Use | |
|------------------------|---------------|---------------|------------|--------------|------------|--------------|------------|---------------|-------------|--------------------------------------|--------------|
| | | Restrained | | Unrestrained | | Unknown | | | | | |
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Restrained | Unrestrained |
| Drivers Killed | Passenger Car | 4,649 | 48% | 4,035 | 42% | 1,014 | 10% | 9,698 | 100% | 54% | 46% |
| | Light Truck* | 4,119 | 43% | 4,577 | 47% | 968 | 10% | 9,664 | 100% | 47% | 53% |
| | –Pickup | 1,318 | 35% | 2,070 | 55% | 363 | 10% | 3,751 | 100% | 39% | 61% |
| | –SUV | 2,414 | 46% | 2,264 | 43% | 535 | 10% | 5,213 | 100% | 52% | 48% |
| | –Van | 385 | 55% | 240 | 35% | 69 | 10% | 694 | 100% | 62% | 38% |
| | Total | 8,768 | 45% | 8,612 | 44% | 1,982 | 10% | 19,362 | 100% | 50% | 50% |
| Passengers Killed | Passenger Car | 1,317 | 44% | 1,301 | 43% | 375 | 13% | 2,993 | 100% | 50% | 50% |
| | Light Truck* | 1,325 | 43% | 1,389 | 45% | 351 | 11% | 3,065 | 100% | 49% | 51% |
| | –Pickup | 280 | 34% | 448 | 55% | 93 | 11% | 821 | 100% | 38% | 62% |
| | –SUV | 882 | 47% | 806 | 43% | 202 | 11% | 1,890 | 100% | 52% | 48% |
| | –Van | 162 | 46% | 135 | 38% | 56 | 16% | 353 | 100% | 55% | 45% |
| | Total | 2,642 | 44% | 2,690 | 44% | 726 | 12% | 6,058 | 100% | 50% | 50% |

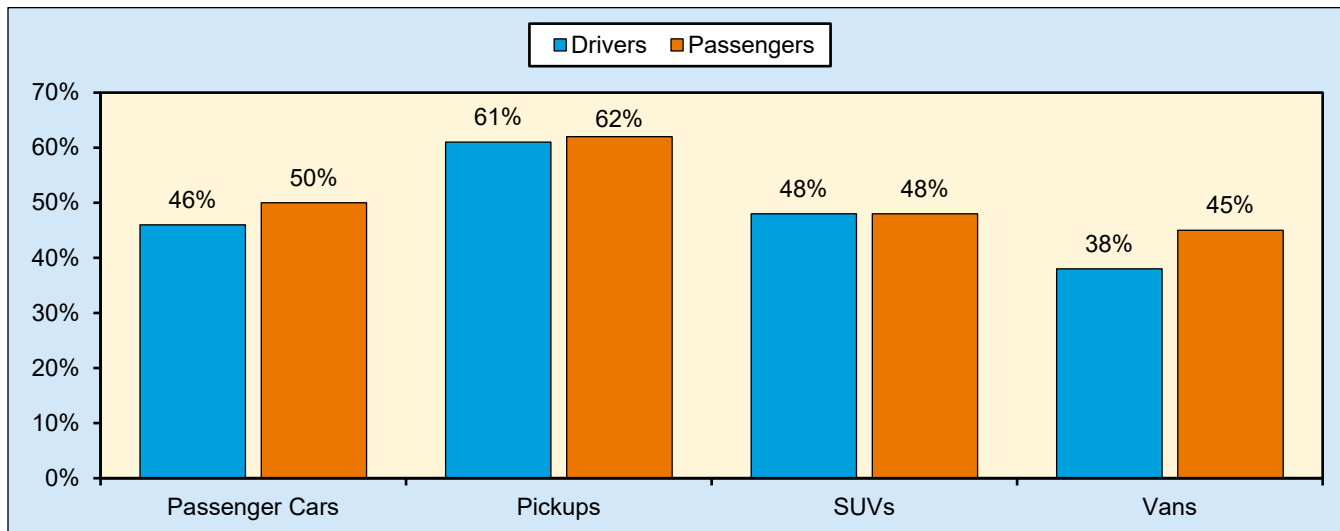
Source: FARS 2022 ARF

Note: Percentages may not add up to 100 percent due to individual rounding.

*Includes passenger vehicle occupants in other/unknown light-truck vehicle types.

There were 6,058 passengers killed in passenger vehicles in 2022 traffic crashes, and 49 percent were riding in passenger cars. Among the 5,332 passengers killed in passenger vehicles for whom restraint use was known, 50 percent were unrestrained, but use varied by vehicle type: 62 percent of passengers killed in pickups were unrestrained, compared to 50 percent in passenger cars, 48 percent in SUVs, and 45 percent in vans. Figure 2 compares the percentage of known unrestrained drivers killed versus passengers killed for each passenger vehicle type.

Figure 2. Percentages of Unrestrained* Drivers and Passengers Killed in Traffic Crashes, by Passenger Vehicle Type, 2022



Source: FARS 2022 ARF

*Based on known restraint use.

Age and Sex

Table 3 shows information on restraint use by age group for passenger vehicle occupants killed in 2022 traffic crashes. Among those where restraint use was known, the 25-to-34 age group had the highest percentage (61%) of unrestrained occupants, followed by the 21-to-24 age group (60%). Figure 3 shows these percentages.

Table 3. Passenger Vehicle Occupants Killed in Traffic Crashes, by Age Group and Restraint Use, 2022

| Age Group | Restraint Use | | | | | | Total | | Percent Based on Known Restraint Use | |
|---------------|---------------|------------|---------------|------------|--------------|------------|---------------|-------------|--------------------------------------|--------------|
| | Restrained | | Unrestrained | | Unknown | | | | | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Restrained | Unrestrained |
| <4 | 138 | 68% | 50 | 25% | 14 | 7% | 202 | 100% | 73% | 27% |
| 4-7 | 98 | 57% | 51 | 30% | 22 | 13% | 171 | 100% | 66% | 34% |
| 8-12 | 118 | 52% | 88 | 39% | 20 | 9% | 226 | 100% | 57% | 43% |
| 13-14 | 55 | 35% | 77 | 49% | 25 | 16% | 157 | 100% | 42% | 58% |
| 15-20 | 974 | 37% | 1,347 | 51% | 303 | 12% | 2,624 | 100% | 42% | 58% |
| 21-24 | 780 | 35% | 1,147 | 51% | 301 | 14% | 2,228 | 100% | 40% | 60% |
| 25-34 | 1,677 | 34% | 2,623 | 53% | 606 | 12% | 4,906 | 100% | 39% | 61% |
| 35-44 | 1,374 | 37% | 1,862 | 51% | 435 | 12% | 3,671 | 100% | 42% | 58% |
| 45-54 | 1,280 | 43% | 1,339 | 45% | 325 | 11% | 2,944 | 100% | 49% | 51% |
| 55-64 | 1,514 | 51% | 1,212 | 41% | 258 | 9% | 2,984 | 100% | 56% | 44% |
| 65-74 | 1,483 | 60% | 789 | 32% | 203 | 8% | 2,475 | 100% | 65% | 35% |
| 75+ | 1,893 | 68% | 703 | 25% | 173 | 6% | 2,769 | 100% | 73% | 27% |
| Total* | 11,410 | 45% | 11,302 | 44% | 2,708 | 11% | 25,420 | 100% | 50% | 50% |

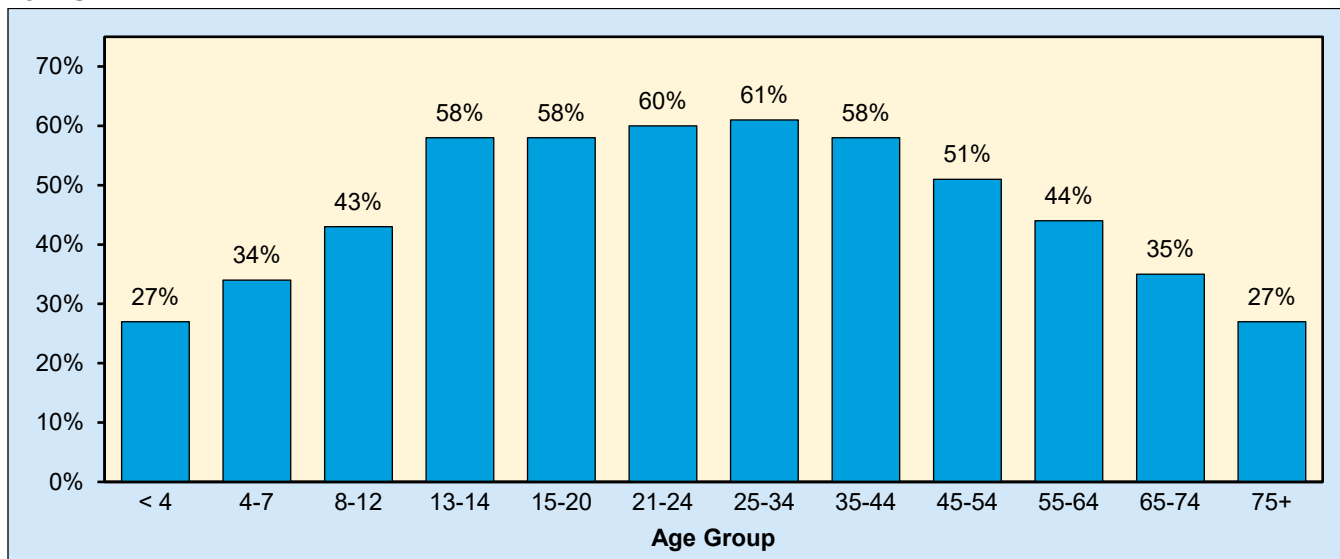
Source: FARS 2022 ARF

Note: Percentages may not add up to 100 percent due to individual rounding.

*Includes passenger vehicle occupants of unknown age.

In 2022 there were 202 passenger vehicle occupant fatalities among children under 4 years old, and 27 percent were unrestrained (based on known restraint use). In the 4-to-7 age group, there were 171 fatalities; 34 percent were unrestrained (based on known restraint use).

Figure 3. Percentages of Unrestrained* Passenger Vehicle Occupants Killed in Traffic Crashes, by Age Group, 2022



Source: FARS 2022 ARF

*Based on known restraint use.

Nearly twice as many male occupants (16,829) as female occupants (8,563) in passenger vehicles were killed in traffic crashes in 2022, as shown in Table 4. When restraint use was known, 54 percent of the males killed and 41 percent of the females killed were unrestrained (Figure 4) in passenger vehicles. Restraint use was unknown for 11 percent of male passenger vehicle occupant fatalities and 9 percent of the female passenger vehicle occupant fatalities.

Table 4. Passenger Vehicle Occupants Killed in Traffic Crashes, by Sex and Restraint Use, 2022

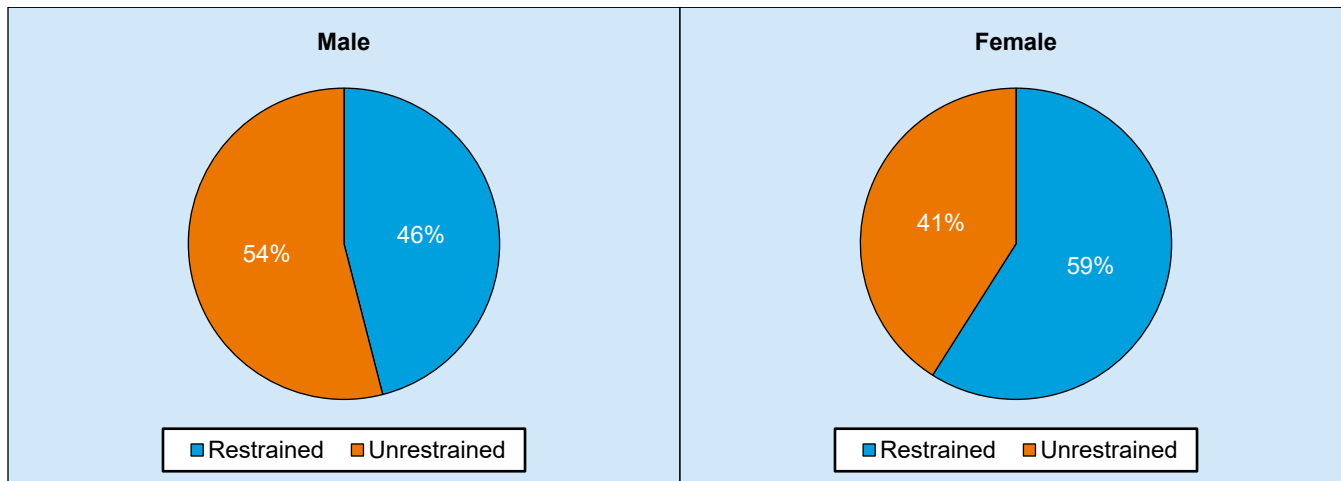
| Sex | Restraint Use | | | | | | Total | | Percent Based on Known Restraint Use | |
|---------------|---------------|------------|---------------|------------|--------------|------------|---------------|-------------|--------------------------------------|--------------|
| | Restrained | | Unrestrained | | Unknown | | | | | |
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Restrained | Unrestrained |
| Male | 6,845 | 41% | 8,098 | 48% | 1,886 | 11% | 16,829 | 100% | 46% | 54% |
| Female | 4,554 | 53% | 3,201 | 37% | 808 | 9% | 8,563 | 100% | 59% | 41% |
| Total* | 11,410 | 45% | 11,302 | 44% | 2,708 | 11% | 25,420 | 100% | 50% | 50% |

Source: FARS 2022 ARF

Note: Percentages may not add up to 100 percent due to individual rounding.

*Includes passenger vehicle occupants of unknown sex.

Figure 4. Percentages of Passenger Vehicle Occupants Killed in Traffic Crashes, by Sex and Restraint Use,* 2022



Source: FARS 2022 ARF
 *Based on known restraint use.

Seating Position

Table 5 shows restraint use for passenger vehicle occupants killed in traffic crashes in 2022, by their seating position. Among killed passenger vehicle occupants with known restraint use, 48 percent of those in the front row and 60 percent of those in the second row were unrestrained.

Table 5. Passenger Vehicle Occupants Killed in Traffic Crashes, by Seating Position and Restraint Use, 2022

| Seating Position | | Restraint Use | | | | | | Total | | Percent Based on Known Restraint Use | |
|------------------|---------------|---------------|------------|---------------|------------|--------------|------------|---------------|-------------|--------------------------------------|--------------|
| | | Restrained | | Unrestrained | | Unknown | | | | | |
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Restrained | Unrestrained |
| Front Row | Total | 10,711 | 46% | 10,070 | 43% | 2,389 | 10% | 23,170 | 100% | 52% | 48% |
| | Left (Driver) | 8,769 | 45% | 8,611 | 44% | 1,983 | 10% | 19,363 | 100% | 50% | 50% |
| | Middle | 8 | 25% | 19 | 59% | 5 | 16% | 32 | 100% | 30% | 70% |
| | Right | 1,932 | 51% | 1,433 | 38% | 399 | 11% | 3,764 | 100% | 57% | 43% |
| | Other/Unknown | 2 | 18% | 7 | 64% | 2 | 18% | 11 | 100% | 22% | 78% |
| Second Row | Total | 644 | 36% | 951 | 53% | 201 | 11% | 1,796 | 100% | 40% | 60% |
| | Left | 262 | 39% | 342 | 51% | 70 | 10% | 674 | 100% | 43% | 57% |
| | Middle | 45 | 22% | 134 | 64% | 29 | 14% | 208 | 100% | 25% | 75% |
| | Right | 331 | 38% | 441 | 51% | 90 | 10% | 862 | 100% | 43% | 57% |
| | Other/Unknown | 6 | 12% | 34 | 65% | 12 | 23% | 52 | 100% | 15% | 85% |
| Other* | | 30 | 17% | 137 | 76% | 14 | 8% | 181 | 100% | 18% | 82% |
| Unknown | | 25 | 9% | 144 | 53% | 104 | 38% | 273 | 100% | 15% | 85% |
| Total | | 11,410 | 45% | 11,302 | 44% | 2,708 | 11% | 25,420 | 100% | 50% | 50% |

Source: FARS 2022 ARF
 Note: Percentages may not add up to 100 percent due to individual rounding.
 *Includes additional rows, cargo areas, trailing units, and vehicle exteriors.

Restraint Use and Benefits

Seat Belts

Table 6 represents passenger vehicles involved (those who were killed as well as those who survived) in fatal traffic crashes by their survival status, time of day, and restraint use. Fifty percent of passenger vehicle occupants killed were unrestrained (based on known restraint use), compared to 14 percent for those who survived. Looking at all passenger vehicle occupants involved in fatal traffic crashes in 2022 with known restraint use:

- 28 percent were unrestrained at the time of the crashes;
- 24 percent were unrestrained during the day; and
- 31 percent were unrestrained at night.

For those passenger vehicle occupants with known restraint use who survived fatal traffic crashes in 2022:

- 13 percent were unrestrained during daytime; and
- 16 percent of crash survivors were unrestrained during nighttime.

Table 6. Passenger Vehicle Occupants Involved in Fatal Traffic Crashes, by Survival Status, Time of Day, and Restraint Use, 2022

| Survival Status/Time of Day | | Restraint Use | | | | | | Total | | Percent Based on Known Restraint Use | |
|-----------------------------|--------------|---------------|------------|---------------|------------|--------------|------------|---------------|-------------|--------------------------------------|--------------|
| | | Restrained | | Unrestrained | | Unknown | | | | | |
| | | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Restrained | Unrestrained |
| Killed | Daytime | 6,638 | 52% | 4,949 | 39% | 1,103 | 9% | 12,690 | 100% | 57% | 43% |
| | Nighttime | 4,704 | 38% | 6,252 | 50% | 1,579 | 13% | 12,535 | 100% | 43% | 57% |
| | Unknown | 68 | 35% | 101 | 52% | 26 | 13% | 195 | 100% | 40% | 60% |
| | Total | 11,410 | 45% | 11,302 | 44% | 2,708 | 11% | 25,420 | 100% | 50% | 50% |
| Survived | Daytime | 16,355 | 80% | 2,365 | 12% | 1,624 | 8% | 20,344 | 100% | 87% | 13% |
| | Nighttime | 16,435 | 73% | 3,171 | 14% | 2,997 | 13% | 22,603 | 100% | 84% | 16% |
| | Unknown | 42 | 52% | 13 | 16% | 26 | 32% | 81 | 100% | 76% | 24% |
| | Total | 32,832 | 76% | 5,549 | 13% | 4,647 | 11% | 43,028 | 100% | 86% | 14% |
| Total | Daytime | 22,993 | 70% | 7,314 | 22% | 2,727 | 8% | 33,034 | 100% | 76% | 24% |
| | Nighttime | 21,139 | 60% | 9,423 | 27% | 4,576 | 13% | 35,138 | 100% | 69% | 31% |
| | Unknown | 110 | 40% | 114 | 41% | 52 | 19% | 276 | 100% | 49% | 51% |
| | Total | 44,242 | 65% | 16,851 | 25% | 7,355 | 11% | 68,448 | 100% | 72% | 28% |

Source: FARS 2022 ARF

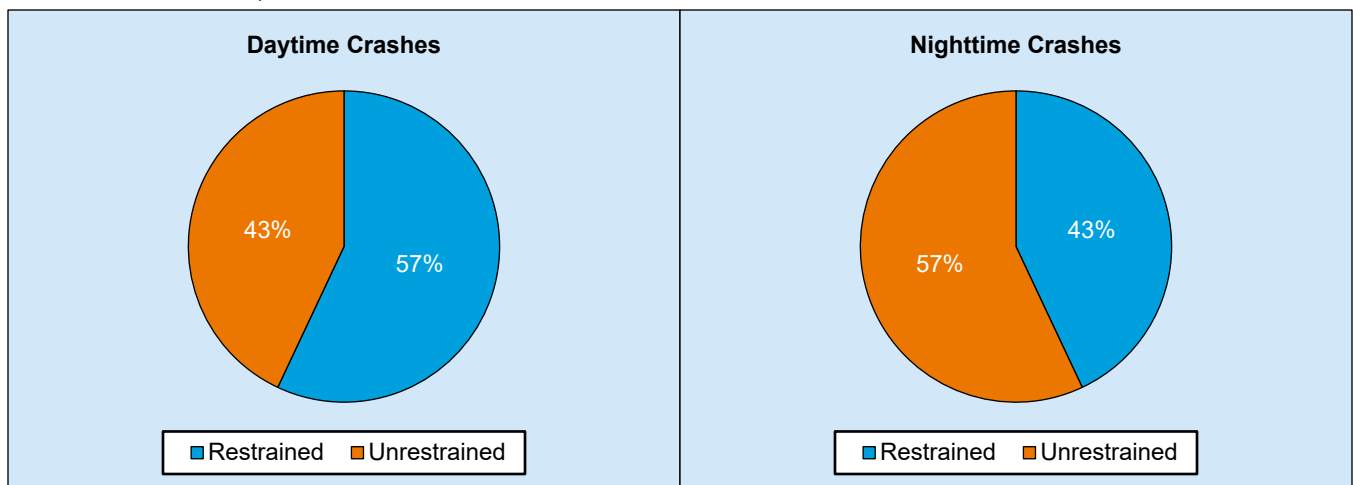
Note: Percentages may not add up to 100 percent due to individual rounding.

Daytime – 6 a.m. to 5:59 p.m.

Nighttime – 6 p.m. to 5:59 a.m.

Among passenger vehicle occupants killed in fatal traffic crashes in 2022 with known restraint use, the percentage of unrestrained fatalities during daytime was 43 percent compared to 57 percent during nighttime (Figure 5).

Figure 5. Percentages of Passenger Vehicle Occupants Killed in Traffic Crashes, by Time of Day and Restraint Use,* 2022

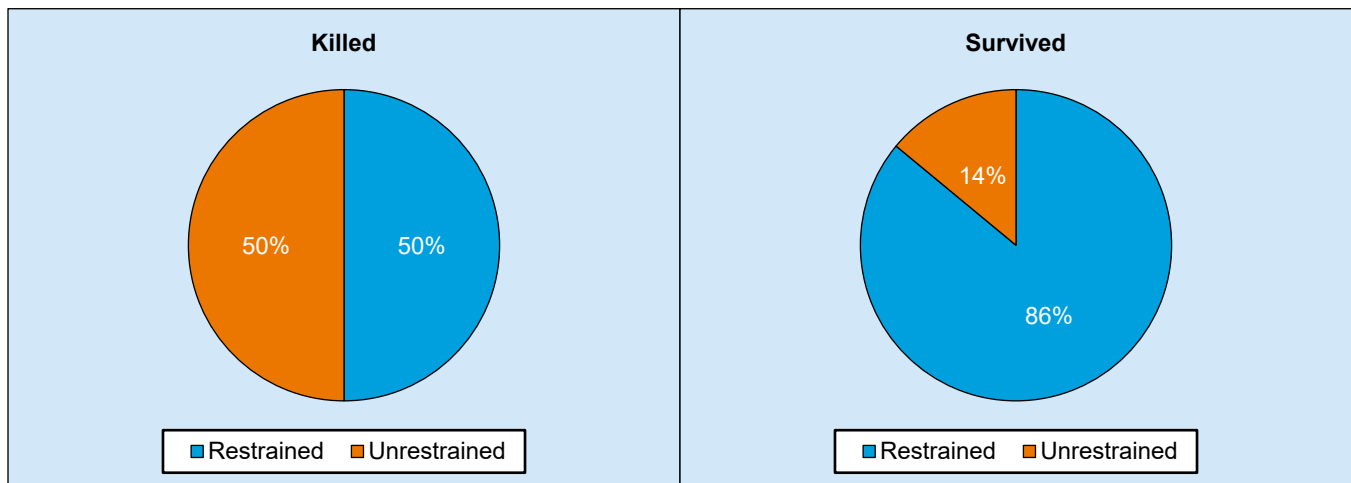


Source: FARS 2022 ARF

*Based on known restraint use.

For passenger vehicle occupants involved in fatal traffic crashes in 2022, half of those killed were unrestrained, compared to only 15 percent of those who survived (Figure 6).

Figure 6. Percentages of Passenger Vehicle Occupants Involved in Fatal Traffic Crashes, by Survival Status and Restraint Use,* 2022



Source: FARS 2022 ARF

*Based on known restraint use.

Ejection from the vehicle is one of the most injurious events that can happen to a person in a crash. In NHTSA's FARS data, ejection refers to occupants being totally or partially thrown from the vehicles. In 2022 fatal traffic crashes based on known restraint use, 83 percent of passenger vehicle occupants who were totally ejected from vehicles were killed. Seat belts are very effective in preventing total ejections; in 2022 only 1 percent of all passenger vehicle occupants involved (those killed as well as survivors) in fatal traffic crashes reported to have been using restraints were totally ejected, compared to 26 percent of those unrestrained.

The safety benefits of seat belt use are significant and well-documented. Seat belts help keep occupants inside vehicles and prevent them from becoming projectiles inside the vehicle and hurting others. NHTSA has estimated that lap/shoulder seat belts, when used, reduce the risk of:

- fatal injury to front-seat passenger car occupants by 45 percent;
- moderate-to-critical injury to front-seat passenger car occupants by 50 percent;
- fatal injury to front-seat light-truck occupants by 60 percent; and
- moderate-to-critical injury to front-seat light-truck occupants by 65 percent (Kahane, 2015; NHTSA, 1984).

Frontal Air Bags

Frontal air bags, combined with lap/shoulder belts, offer effective safety protection for passenger vehicle occupants. NHTSA analyses indicate frontal air bags reduce fatalities by 14 percent when no seat belts were used, and 11 percent when seat belts were used in conjunction with frontal air bags (Kahane, 2015).

Air bags are supplemental protection and are designed to work in combination with seat belts. In addition, they are not designed to deploy in all crashes. Most are designed to inflate in moderate-to-severe frontal crashes. Some crashes at lower speeds may result in injuries, but generally not the serious injuries that air bags are designed to prevent. Lap/shoulder belts should always be used, even in vehicles with air bags.

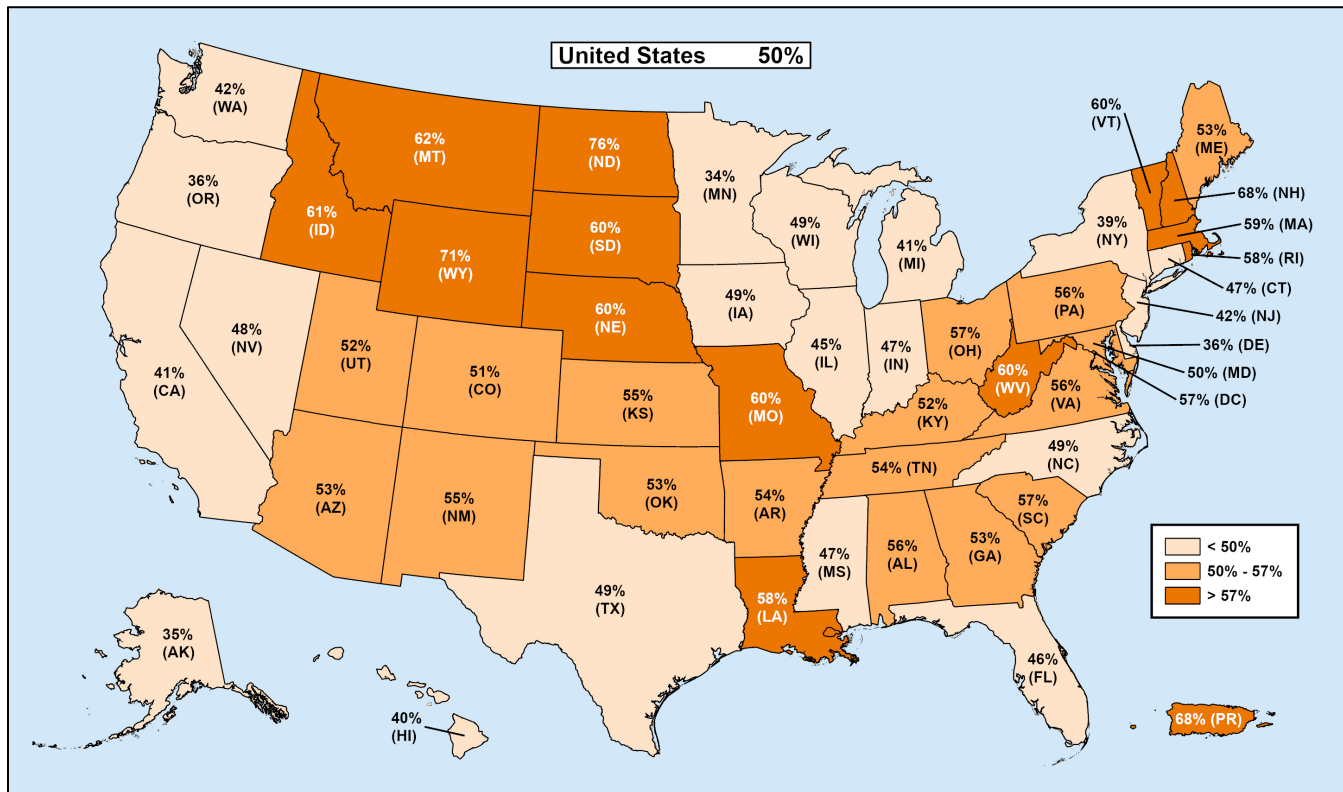
Child Restraints

NHTSA has estimated that car seats reduce the risk of fatal injury by 71 percent for infants (younger than 1 year old) and by 54 percent for toddlers (1 to 4 years old) in passenger cars. For infants and toddlers in light trucks, the corresponding reductions are 58 percent and 59 percent (Kahane, 2015).

State

Figure 7 shows the percentages of unrestrained passenger vehicle occupants killed in traffic crashes for each State for 2022, based on known restraint use. Table 7 shows seat belt use information for passenger vehicle occupants killed in traffic crashes in 2022 by State. Also in Table 7 are observed seat belt use rates in the States, the District of Columbia, and Puerto Rico. The national seat belt use rate results were obtained from NOPUS by observing occupants in traffic on roads at selected sites. Observed seat belt use rates at the State level were obtained from probability-based observational surveys conducted during daylight hours (7 a.m. to 6 p.m.) by each State, certified by NHTSA.

Figure 7. Percentages of Unrestrained* Passenger Vehicle Occupants Killed in Traffic Crashes, by State, 2022



Source: FARS 2022 ARF
 *Based on known restraint use.

Table 7. Passenger Vehicle Occupants Killed in Traffic Crashes, by State, Restraint Use, and Observed Seat Belt Use Rate, 2022

| State | Total Occupants Killed | Restraint Use | | | | | | Percent Based on Known Use | | Observed Seat Belt Use Rate* |
|----------------------|------------------------|---------------|------------|---------------|------------|--------------|------------|----------------------------|--------------|------------------------------|
| | | Restrained | | Unrestrained | | Unknown | | Restrained | Unrestrained | |
| | | Number | Percent | Number | Percent | Number | Percent | | | |
| Alabama | 710 | 282 | 40% | 362 | 51% | 66 | 9% | 44% | 56% | 92.7% |
| Alaska | 56 | 31 | 55% | 17 | 30% | 8 | 14% | 65% | 35% | 91.5% |
| Arizona | 588 | 239 | 41% | 268 | 46% | 81 | 14% | 47% | 53% | 87.0% |
| Arkansas | 415 | 163 | 39% | 188 | 45% | 64 | 15% | 46% | 54% | 79.1% |
| California | 2,306 | 1,221 | 53% | 842 | 37% | 243 | 11% | 59% | 41% | 95.3% |
| Colorado | 462 | 222 | 48% | 227 | 49% | 13 | 3% | 49% | 51% | 87.0% |
| Connecticut | 211 | 83 | 39% | 74 | 35% | 54 | 26% | 53% | 47% | 92.1% |
| Delaware | 101 | 61 | 60% | 35 | 35% | 5 | 5% | 64% | 36% | 90.4% |
| District of Columbia | 8 | 3 | 38% | 4 | 50% | 1 | 13% | 43% | 57% | 95.1% |
| Florida | 1,748 | 930 | 53% | 777 | 44% | 41 | 2% | 54% | 46% | 88.3% |
| Georgia | 1,092 | 456 | 42% | 518 | 47% | 118 | 11% | 47% | 53% | 89.3% |
| Hawaii | 41 | 24 | 59% | 16 | 39% | 1 | 2% | 60% | 40% | 95.9% |
| Idaho | 153 | 52 | 34% | 81 | 53% | 20 | 13% | 39% | 61% | 87.6% |
| Illinois | 824 | 338 | 41% | 274 | 33% | 212 | 26% | 55% | 45% | 93.0% |
| Indiana | 649 | 260 | 40% | 229 | 35% | 160 | 25% | 53% | 47% | 93.0% |
| Iowa | 232 | 107 | 46% | 102 | 44% | 23 | 10% | 51% | 49% | 95.9% |
| Kansas | 283 | 114 | 40% | 142 | 50% | 27 | 10% | 45% | 55% | 87.2% |
| Kentucky | 484 | 230 | 48% | 254 | 52% | 0 | 0% | 48% | 52% | 86.7% |
| Louisiana | 540 | 204 | 38% | 280 | 52% | 56 | 10% | 42% | 58% | 86.1% |
| Maine | 124 | 58 | 47% | 65 | 52% | 1 | 1% | 47% | 53% | 93.4% |
| Maryland | 328 | 153 | 47% | 150 | 46% | 25 | 8% | 50% | 50% | 92.7% |
| Massachusetts | 264 | 96 | 36% | 137 | 52% | 31 | 12% | 41% | 59% | 77.0% |
| Michigan | 687 | 331 | 48% | 230 | 33% | 126 | 18% | 59% | 41% | 92.9% |
| Minnesota | 283 | 153 | 54% | 78 | 28% | 52 | 18% | 66% | 34% | 93.3% |
| Mississippi | 511 | 226 | 44% | 197 | 39% | 88 | 17% | 53% | 47% | 78.9% |
| Missouri | 680 | 245 | 36% | 363 | 53% | 72 | 11% | 40% | 60% | 88.9% |
| Montana | 138 | 51 | 37% | 82 | 59% | 5 | 4% | 38% | 62% | 92.9% |
| Nebraska | 171 | 57 | 33% | 85 | 50% | 29 | 17% | 40% | 60% | 76.3% |
| Nevada | 207 | 88 | 43% | 82 | 40% | 37 | 18% | 52% | 48% | 93.1% |
| New Hampshire | 89 | 25 | 28% | 52 | 58% | 12 | 13% | 32% | 68% | 75.7% |
| New Jersey | 360 | 195 | 54% | 140 | 39% | 25 | 7% | 58% | 42% | 92.9% |
| New Mexico | 282 | 118 | 42% | 142 | 50% | 22 | 8% | 45% | 55% | 89.8% |
| New York | 582 | 320 | 55% | 203 | 35% | 59 | 10% | 61% | 39% | 91.9% |
| North Carolina | 1,070 | 526 | 49% | 505 | 47% | 39 | 4% | 51% | 49% | 90.9% |
| North Dakota | 56 | 12 | 21% | 39 | 70% | 5 | 9% | 24% | 76% | 80.6% |
| Ohio | 809 | 304 | 38% | 401 | 50% | 104 | 13% | 43% | 57% | 80.8% |
| Oklahoma | 453 | 192 | 42% | 219 | 48% | 42 | 9% | 47% | 53% | 80.0% |
| Oregon | 346 | 189 | 55% | 108 | 31% | 49 | 14% | 64% | 36% | 96.5% |
| Pennsylvania | 689 | 260 | 38% | 334 | 48% | 95 | 14% | 44% | 56% | 89.9% |
| Rhode Island | 33 | 14 | 42% | 19 | 58% | 0 | 0% | 42% | 58% | 87.1% |
| South Carolina | 699 | 284 | 41% | 375 | 54% | 40 | 6% | 43% | 57% | 90.6% |
| South Dakota | 92 | 33 | 36% | 49 | 53% | 10 | 11% | 40% | 60% | 88.1% |
| Tennessee | 877 | 376 | 43% | 437 | 50% | 64 | 7% | 46% | 54% | 90.5% |
| Texas | 2,703 | 1,241 | 46% | 1,175 | 43% | 287 | 11% | 51% | 49% | 90.4% |
| Utah | 180 | 79 | 44% | 85 | 47% | 16 | 9% | 48% | 52% | 91.8% |
| Vermont | 46 | 18 | 39% | 27 | 59% | 1 | 2% | 40% | 60% | 90.4% |
| Virginia | 666 | 290 | 44% | 373 | 56% | 3 | 0% | 44% | 56% | 75.6% |
| Washington | 433 | 209 | 48% | 153 | 35% | 71 | 16% | 58% | 42% | 93.9% |
| West Virginia | 171 | 57 | 33% | 85 | 50% | 29 | 17% | 40% | 60% | 92.5% |
| Wisconsin | 400 | 165 | 41% | 161 | 40% | 74 | 19% | 51% | 49% | 87.5% |
| Wyoming | 88 | 25 | 28% | 61 | 69% | 2 | 2% | 29% | 71% | 78.3% |
| U.S. Total | 25,420 | 11,410 | 45% | 11,302 | 44% | 2,708 | 11% | 50% | 50% | 91.6% |
| Puerto Rico | 130 | 41 | 32% | 89 | 68% | 0 | 0% | 32% | 68% | 91.8% |

Sources: FARS 2022 ARF; NOPUS 2022

Notes: Shaded States are those with primary seat belt laws for front seat occupants in 2022. Percentages may not add up to 100 percent due to individual rounding.

*Observed Seat Belt Use Rates were obtained from probability-based observational surveys conducted by each State, certified by NHTSA.

**From NHTSA's NOPUS. Observations were made of moving traffic, not crashes (refer to NOPUS 2022 in Report No. DOT HS 813 407).

For more information on State observed seat belt use rates, see the Crash*Stat *Seat Belt Use in 2022—Use Rates in the States and Territories* (Report No. DOT HS 813 487). Note that restraint use (observed data as well as that for passenger vehicle occupants killed in traffic crashes) differs considerably by State. Additional information on State seat belts laws, such as the ages and seating positions covered, is available at the Governors Highway Safety Association (GHSA) website at www.ghsa.org/state-laws/issues/Seat-Belts.

Restraint Use Laws

The first mandatory seat belt use law was enacted in New York in 1984. Adult seat belt use laws are 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. 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 for front seat occupants, 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 police 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 18 years old.

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 GHSA website 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 addition, results from the annual NOPUS have found that seat belt use in primary law States is consistently higher than use in States with secondary laws or no law (92.2% versus 89.5% in 2022) (see Report No. DOT HS 813 407, Figure 3).

Important Safety Reminders

Child Restraint Systems

- As children grow, so do their restraint types (rear-facing, forward-facing, booster seat, or seat belt). Always use the one that fits your child's current age and size. Use the NHTSA Car Seat Finder located at www.nhtsa.gov/equipment/car-seats-and-booster-seats.
- Use either the lower anchors and tether, or the seat belt and tether when installing forward-facing seats.
- Every car seat or booster seat has different installation instructions, so make sure you read, understand and follow both the car seat instructions and the vehicle owner's manual.
- To get assistance with installation, find a certified child passenger safety technician at a location near you using NHTSA's Inspection Station locator: www.nhtsa.gov/equipment/car-seats-and-booster-seats#installation-help-inspection
- Remember to register your car seat or booster seat so you can be notified in the event of a safety recall.
- Plan for using car seats or booster seats when travelling and riding in taxis or ride-share vehicle.
- Find out when your child is ready to use an adult seat belt, please reference the Car Seat Recommendations for Children located at: www.nhtsa.gov/sites/nhtsa.dot.gov/files/documents/carseat-recommendations-for-children-by-age-size.pdf. Be sure to read information for Booster Seat and Seat Belt Use.
- Keep children in the back seat until at least age 13. It's the safest place to ride.

Seat Belts

- Buckling up is the single most effective thing you can do to protect yourself in a crash. Wear your seat belt for the entirety of every trip you make. Protect yourself no matter the time of day, weather, trip distance, vehicle speed, road type, or proximity to your home.
- It is important to keep yourself safe when driving and when riding in the front AND back seat of all vehicles.
- Always wear your seat belt when riding in taxis and rideshare vehicles.
- Always wear your seat belt properly. Learn how to correctly position your belt across the middle of your chest and away from your neck. NEVER put the shoulder belt behind your back or under an arm.
- If you're pregnant, always wear a seat belt to maximize your safety and the safety of your unborn child. For more information, see www.nhtsa.gov/sites/nhtsa.dot.gov/files/documents/pregnant-seat-belt-use.pdf.
- You still need to wear your seat belt even if your car or truck has air bags or advanced safety features.
- Encourage your passengers to wear their seat belts when riding in your car. Establish your own safety rules.

For information on all of these safety tips, please visit www.nhtsa.gov.

—NHTSA's Research and Program Development

References

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Fatality Analysis Reporting System

FARS contains data on every fatal motor vehicle traffic crash within 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 a vehicle occupant or a nonoccupant within 30 days of the crash. The Annual Report File (ARF) is the FARS data file associated with the most recent available year, which is subject to change when it is finalized the following year to the final version known as the Final File. The additional time between the ARF and the Final File provides the opportunity for submission of important variable data requiring outside sources, which may lead to changes in the final counts. More information on FARS can be found at www.nhtsa.gov/crash-data-systems/fatality-analysis-reporting-system.

The updated final counts for the previous data year will be reflected with the release of the recent year's ARF. For example, along with the release of the 2022 ARF, the 2021 Final File was released to replace the 2021 ARF. The final fatality count in motor vehicle traffic crashes for 2021 was 43,230, which was updated from 42,939 in the 2021 ARF. The number of passenger vehicle occupant fatalities from the 2021 Final File was 26,465, which was updated from 26,325 from the 2021 ARF.

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 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 Product Information Catalog and Vehicle Listing (vPIC) dataset that is being used to decode VINs (Vehicle Identification Numbers) 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 data files. Starting with the release of 2021 FARS, all vehicle-related analysis for 2020 and later years will be 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 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/>.

The suggested APA format citation for this document is:

National Center for Statistics and Analysis. (2024, May). *Occupant protection in passenger vehicles: 2022 data* (Traffic Safety Facts. Report No. DOT HS 813 573). National Highway Traffic Safety Administration.

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. 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.

The following data tools and resources can be found at <https://cdan.dot.gov/>.

- Fatal Motor Vehicle Traffic Crash Data Visualizations
- Motor Vehicle Traffic Crash Databook
- Fatality and Injury Reporting System Tool (FIRST)
- State Traffic Safety Information (STSI)
- Traffic Safety Facts Annual Report Tables
- FARS Data Tables (FARS Encyclopedia)
- Crash Viewer
- Product Information Catalog and Vehicle Listing (vPIC)
- FARS, NASS GES, CRSS, NASS Crashworthiness Data System (CDS), and Crash Investigation Sampling System (CISS) data can be downloaded for further analysis.

Other fact sheets available from NCSA:

- Alcohol-Impaired Driving
- Bicyclists and Other Cyclists
- Children
- Large Trucks
- Motorcycles
- 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
- Young Drivers

Detailed data on motor vehicle traffic crashes are published annually in *Traffic Safety Facts: A Compilation of Motor Vehicle Traffic Crash Data*. The fact sheets and Traffic Safety Facts annual report can be found at <https://crashstats.nhtsa.dot.gov/>.



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