



Department of
**Safety &
Homeland Security**

Ambulance, Stretcher, and Wheelchair Crash Data

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TITAN Business Unit, January 2024



OUTLINE

1. Ambulance Crashes and Injuries, 2019 - 2023

- ▶ Crashes
- ▶ Injuries
- ▶ Emergency Use
- ▶ Restraint Use
- ▶ Seat Position

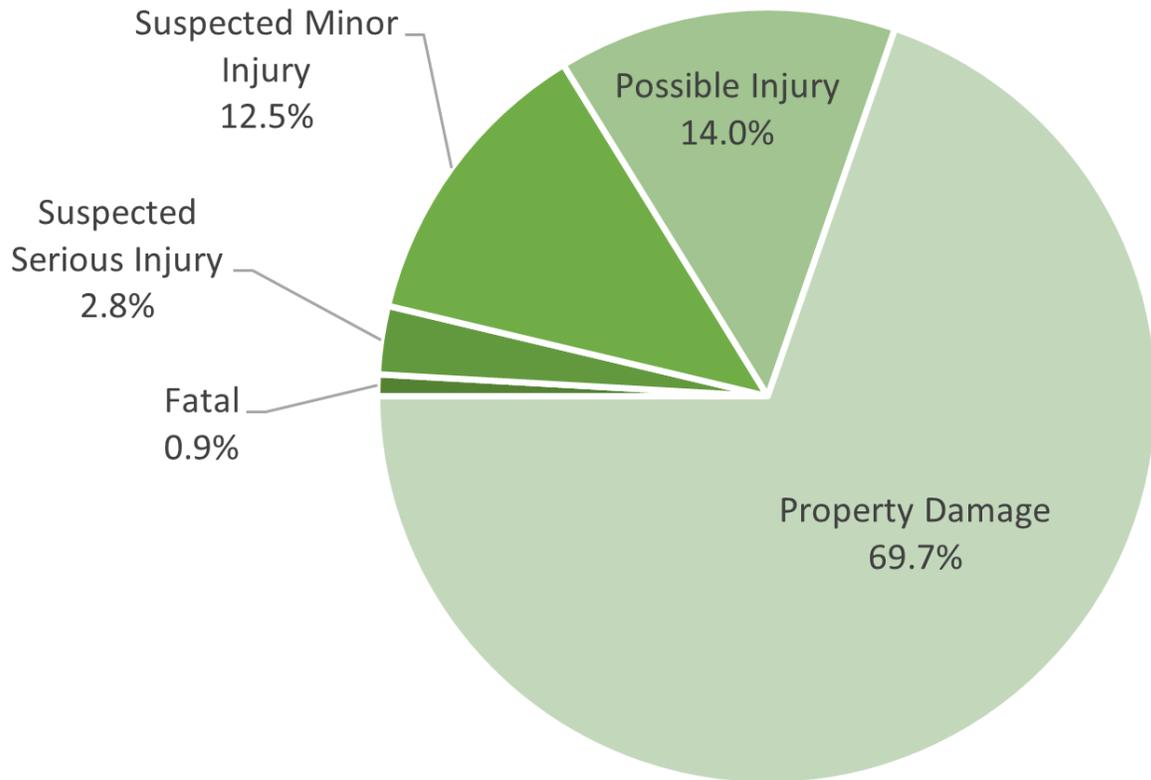
2. Stretcher and Wheelchair Crashes and Injuries, 2020 - 2023

- ▶ Crashes
- ▶ Injuries

AMBULANCE CRASHES

- From 2019 to 2023 there were **776** crashes involving an ambulance.
- Over **30%** of these crashes resulted in an **injury** or **fatality**.
- In comparison, about **25%** of non-ambulance crashes resulted in an **injury** or **fatality**.
- The yearly crash totals ranged from **116** in 2020 to **217** in 2023.

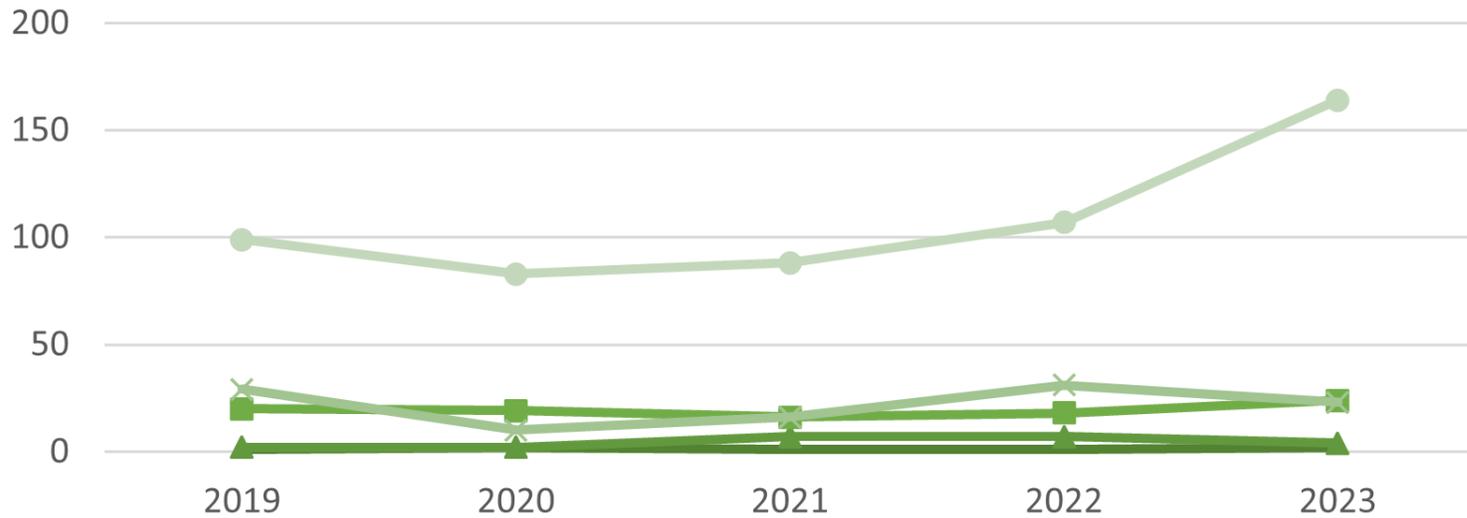
Ambulance Crashes by Type, CY 2019 - 2023



AMBULANCE CRASHES

*SOURCE: TN DEPT. OF SAFETY
AND HOMELAND SECURITY,
TITAN BUSINESS UNIT, 23 JAN
2024 (CRASH).*

Ambulance Crashes by Type, CY 2019 - 2023



— Fatal —▲ Suspected Serious Injury —■ Suspected Minor Injury
—x Possible Injury —● Property Damage

AMBULANCE CRASH COUNT

*SOURCE: TN DEPT. OF SAFETY
AND HOMELAND SECURITY,
TITAN BUSINESS UNIT, 23 JAN
2024 (CRASH).*

AMBULANCE INJURIES

- From 2019 to 2023 there were **1,691** ambulance passengers involved in crashes. There was only **one fatality**, which occurred in 2023.
- About **10%** of ambulance passengers in crashes were **injured** or **killed**.
- In comparison, nearly **15%** of non-ambulance passengers in crashes were **injured** or **killed**.
- About **8%** of injuries in ambulance crashes were **serious injuries** or **deaths**.

EMERGENCY USE

- About **14%** of ambulance passengers in crashes during an emergency run were **injured** or **killed**.
- About **8%** of ambulance passengers in crashes **not** occurring on an emergency run were **injured** or **killed**.
- Ambulance passengers in crashes were nearly **twice as likely** to be **injured** or **killed** during an emergency run.

RESTRAINT USE

Restrained

Unrestrained

- About **9%** of restrained **ambulance** passengers in crashes were injured or killed.
- Almost **15%** of restrained **NON-ambulance** passengers were injured or killed.
- The restraint use rate was **88%** for **both** ambulance and non-ambulance passengers.
- **Unrestrained** ambulance passengers were over **3 times more likely** to be injured or killed in crashes than those who were restrained.
- **Unrestrained** passengers were **half as likely** to be injured or killed in **ambulances** than in other vehicles.

SEAT POSITION

- **Cargo Passengers** – refers to ambulance passengers labeled as sitting in any non-front seat.
- The majority (276 passengers) are labeled as “Other Passenger in Enclosed Passenger or Cargo.”
- Passengers recorded as sitting in the second, third, or fourth row of seats are also included in the cargo passenger count, as this likely refers to additional seats in the main cargo section.

SEAT POSITION

Cargo

Front

- From 2019 to 2023, about **15.5%** of ambulance cargo passengers in crashes were **injured**.
 - Nearly **10%** of these injuries were **serious**.
 - Cargo passengers were almost **4 times more likely** to be **seriously injured** in crashes than front seat passengers.
- From 2019 to 2023, about **8.5%** of front seat ambulance passengers in crashes were **injured**.
 - Under **5%** of these injuries were **serious**.

SEAT POSITION

- **79%** of **unrestrained** ambulance passengers were seated in the cargo section.
- Cargo passengers were over **12 times more likely** to be **unrestrained** than ambulance passengers in other seat positions.

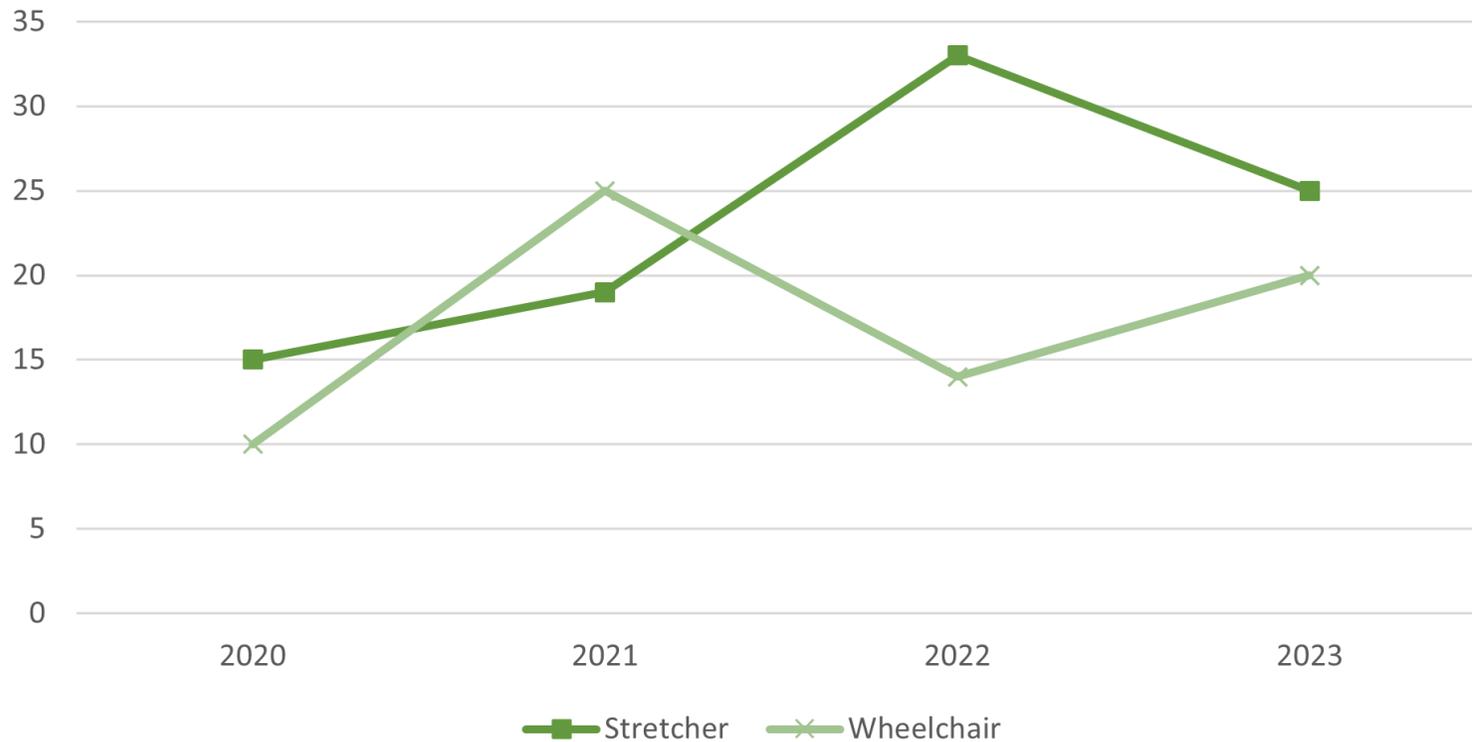


**STRETCHER and Wheelchair
CRASHES and INJURIES
2020 – 2023**

STRETCHER & WHEELCHAIR CRASHES

- From 2020 to mid-December 2023, there were **92** crashes involving a passenger restrained to a **stretcher**.
- There were **69** crashes involving a passenger restrained to a **wheelchair**.

Stretcher and Wheelchair Crashes by Year, CY 2020 - 2023



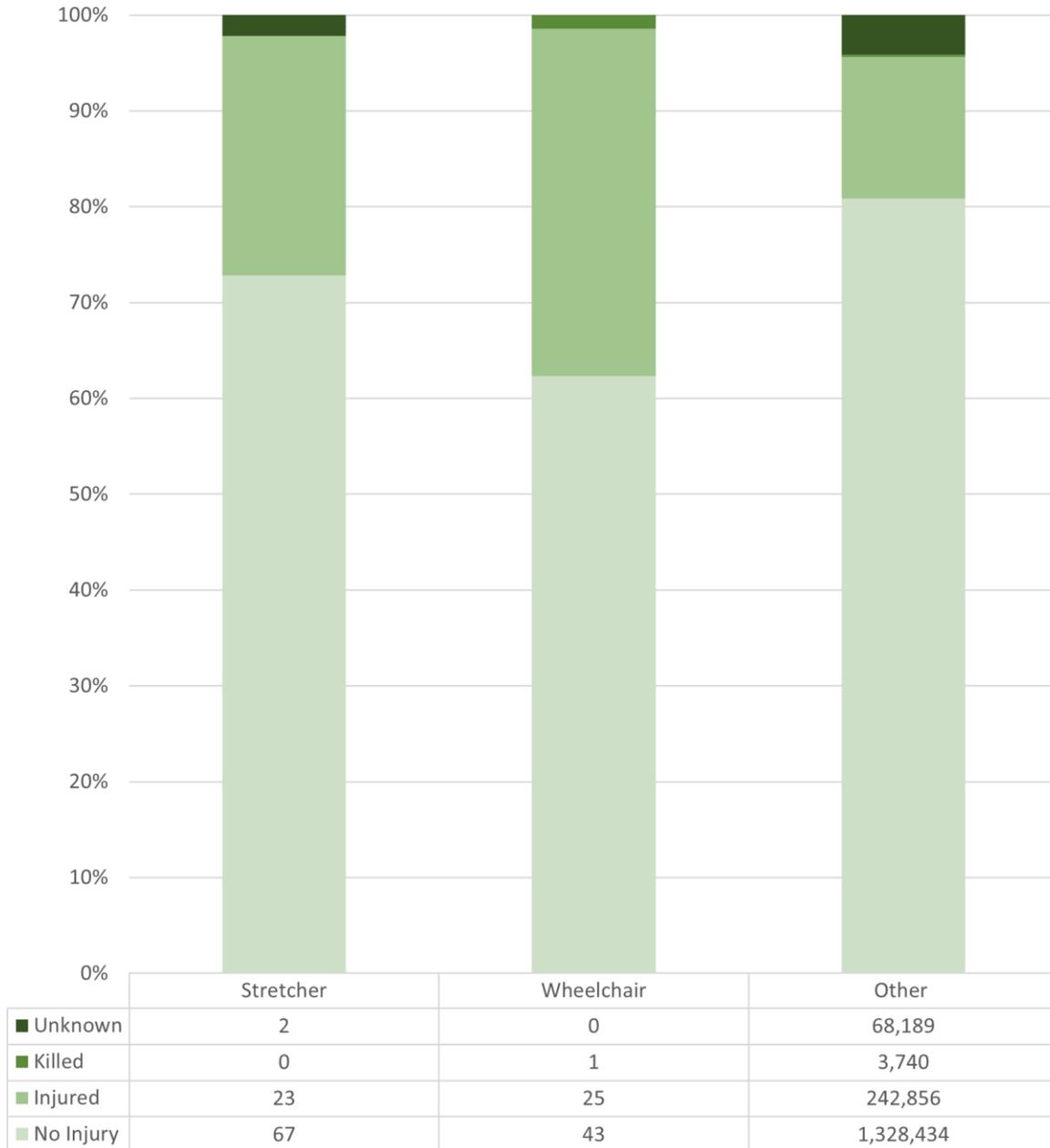
STRETCHER & WHEELCHAIR CRASH COUNT

SOURCE: TN DEPT. OF SAFETY AND HOMELAND SECURITY, TITAN BUSINESS UNIT, 14 DEC 2023 (CRASH).

STRETCHER & WHEELCHAIR INJURIES

- From 2020 to mid-December 2023, **25%** of passengers restrained to **stretchers** in crashes were **injured** as a result.
- Nearly **38%** of passengers restrained to **wheelchairs** in crashes were **injured** or **killed** as a result.
- In comparison, about **15%** of all other passengers in crashes were **injured** or **killed**.
- Passengers restrained to **wheelchairs** were over **2.5 times more likely** to be injured or killed in a crash.

Stretcher, Wheelchair, and All Other Injuries, CY 2020 - 2023



■ No Injury ■ Injured ■ Killed ■ Unknown

STRETCHER & WHEELCHAIR INJURIES

SOURCE: TN DEPT. OF SAFETY AND HOMELAND SECURITY, TITAN BUSINESS UNIT, 14 DEC 2023 (CRASH).

CONTACT INFORMATION

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Dashboards, Crash Data, and Maps for TN can be found under Statistics & Research on our website:

tn.gov/safety