FTA Safety Workshop

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CTAA Expo

6/10/2024



Agenda

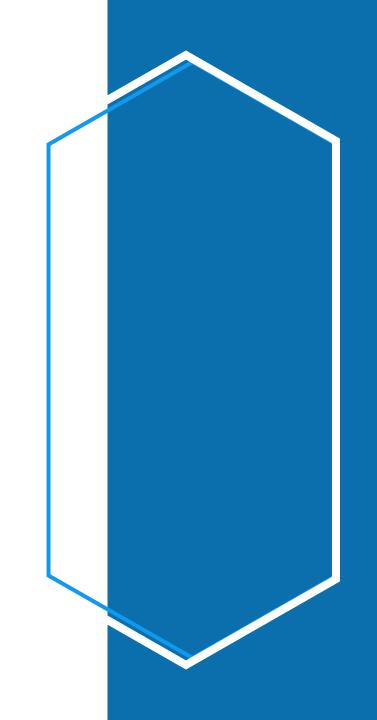
- **Regulatory Update** •
- State of Bus Safety ullet
- Assaults on Transit Workers ${\color{black}\bullet}$
- **Bus Collisions** lacksquare
- Fatigue Risk Management ${\color{black}\bullet}$
- National Roadway Safety Strategy ullet





FTA Regulatory Update





FTA Regulatory Agenda

Public Public National **Transportation State Safety Transportation Safety Certification Transportation Oversight Agency Safety Plans Safety Plan (NSP) Training Program (SSO)** (PTASP) (PTSCTP) Streamlines Introduces changes to FTA finalized additional communication and clarify SSOA oversight FTA finalized 2024 **APRIL 2024** performance measures, administrative processes new requirements for responsibilities and 024 2024 best practices, tools, and clarifies voluntary safety committees and authority to conduct APRIL technical assistance, Ñ risk reduction programs participation and inspections and voluntary standards and established through BIL. recertification training **Bipartisan Infrastructure** other resources. requirements. Law (BIL) provisions.



FTA Regulatory Agenda

General Directive: Assaults on Transit Workers

Proposes to require transit agencies that must have an Agency Safety Plan (ASP) as part of PTASP to conduct a safety risk assessment and provide results to FTA regarding assaults on transit workers.

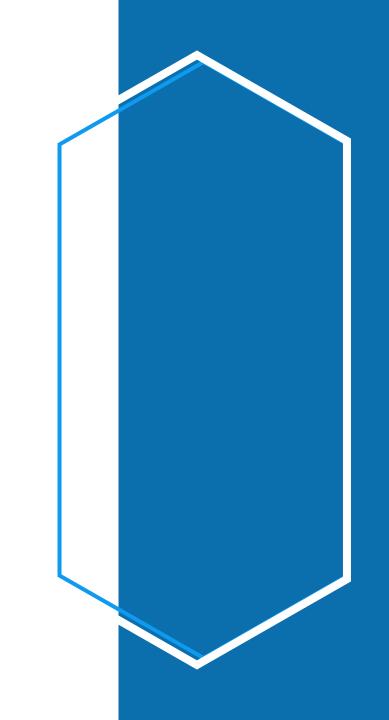
Estimated Final Publication in 2024



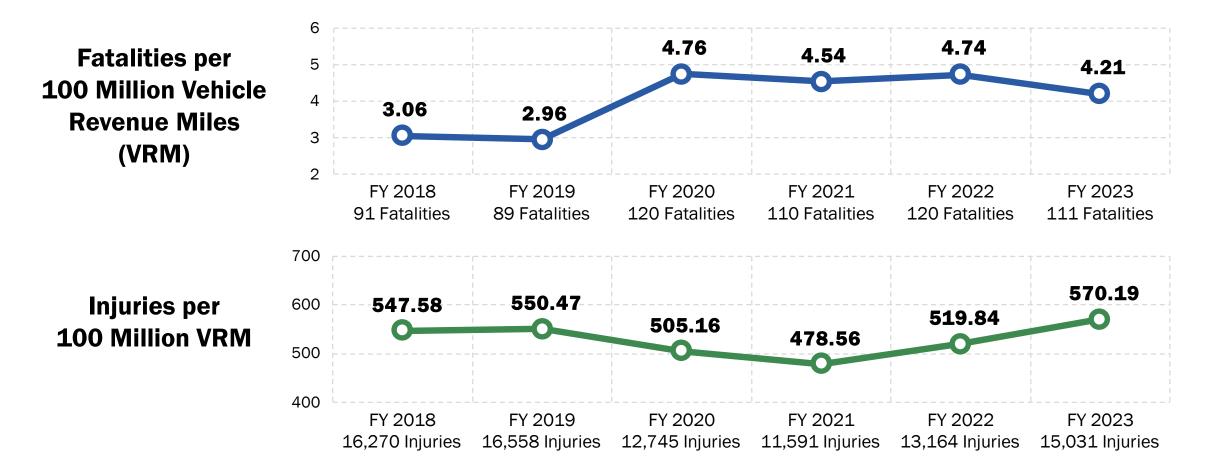


State of Bus Safety





State of Bus Transit Safety – Annual Trends



• **Source:** National Transit Database (NTD) FY 2023 data are preliminary.

Data as of: May 1, 2024



Sources of Bus Transit Fatalities and Injuries

Bus Transit Fatalities and Injuries by Source, Oct 2017–Sep 2023

Fatalities Injuries Collisions between Buses **51% (328)** 42% (35,572) and Motor Vehicles Collisions between Buses 32% (202) 3% (2,648) and People 8% (49) 4% (3,642) Homicides and Assaults 5% (31) <1% (59) Suicides and Suicide Attempts All Others (e.g. personal 5% (31) 51% (43,438) injuries on a bus)

• **Source:** National Transit Database (NTD) FY 2023 data are preliminary.

Data as of: May 1, 2024



Delinquency in Major Event (S&S-40) Reporting

Full reporters are required to report major events to the National Transit Database (NTD) via form S&S-40 within 30 days of the event.

Over last five years - Only 35% of major safety and security events reported to the NTD within 30 days of the event.

Timely and accurate safety and security data needed.

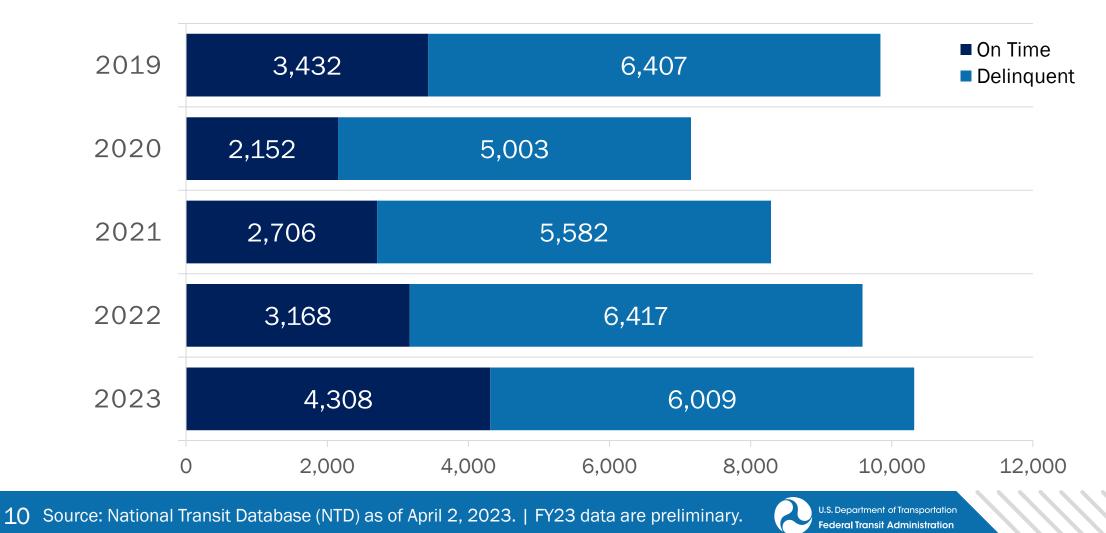
Delinquent reporting inhibits ability to proactively mitigate safety risks.



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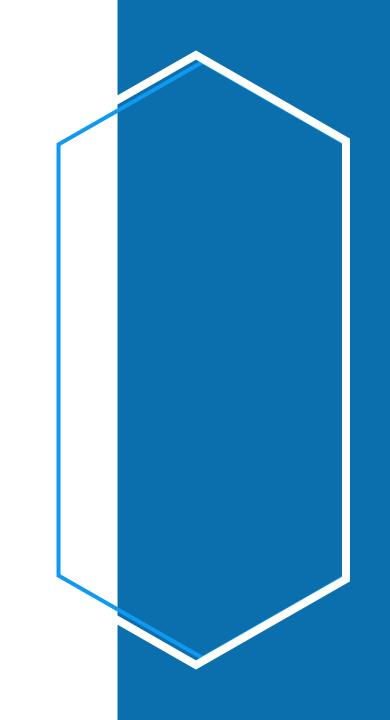
S&S-40 Delinquency by the Numbers

On average, nearly two-thirds (65%) of major safety and security events were delinquently reported to the NTD from 2019 to 2023.

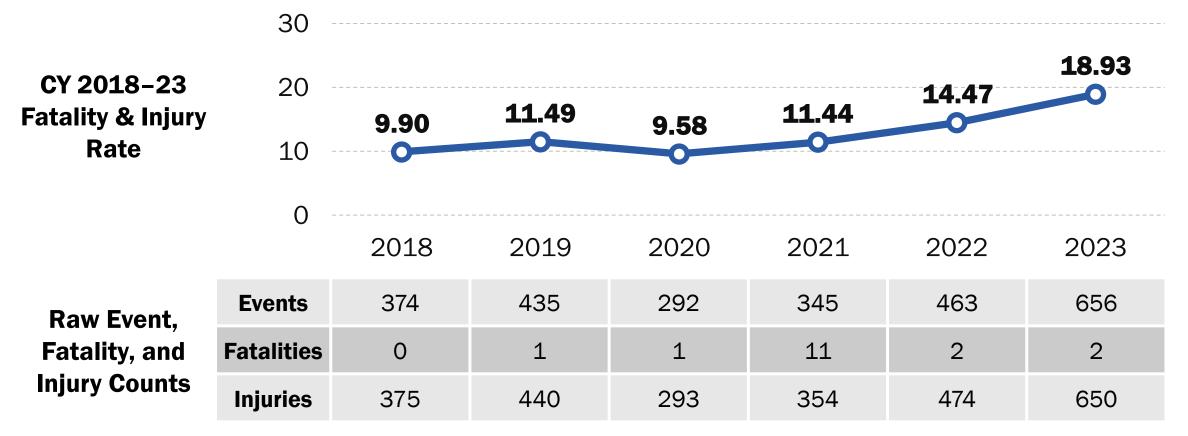


Assaults on Transit Workers





Major Assaults on Transit Workers Fatalities & Injuries: CY 2018–23



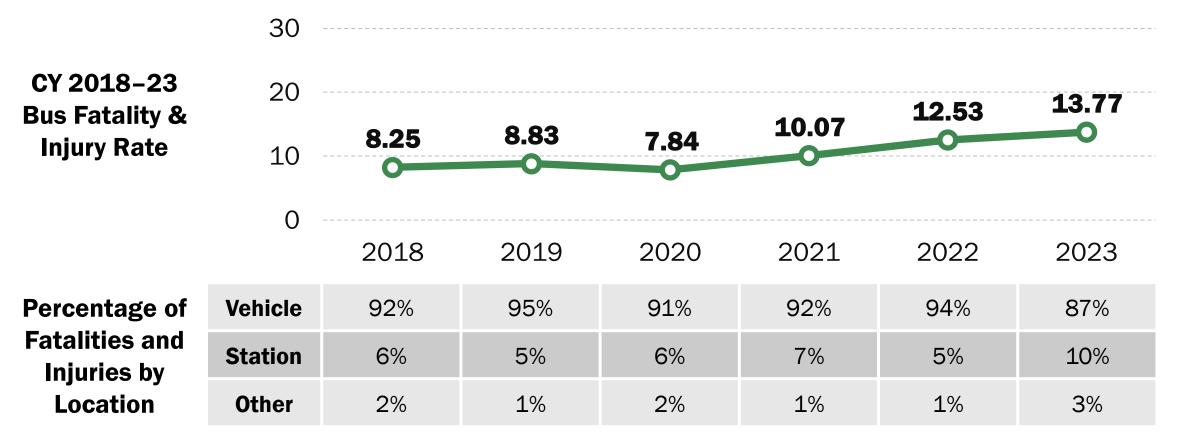
Source: National Transit Database (NTD). CY 2023 data are preliminary.

Combined fatality and injury rate is calculated per 100 Million Vehicle Revenue Miles (100M VRM).

Data as of: Apr 2, 2024



Major Assaults on Transit Workers Fatalities & Injuries on Bus: CY 2018–23



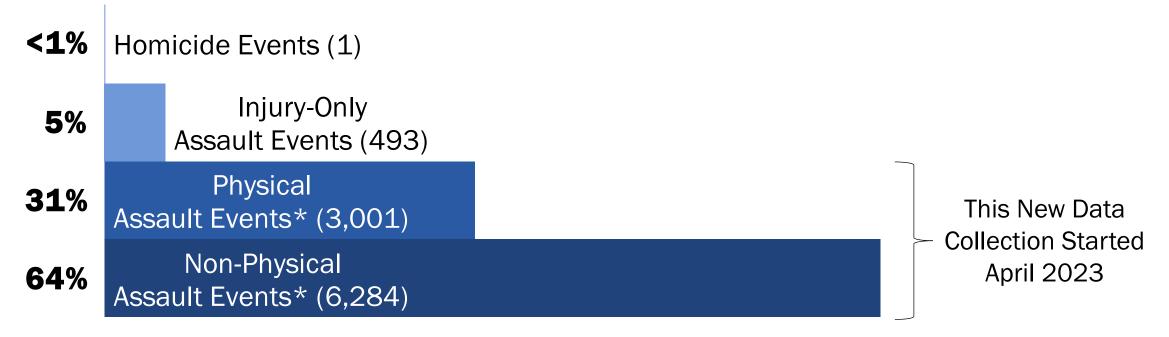
Source: National Transit Database (NTD). CY 2023 data are preliminary. Combined fatality and injury rate is calculated per 100 Million Vehicle Revenue Miles (100M VRM).

Data as of: Apr 2, 2024



Assaults on Transit Workers New NTD Data Collection: 2023

Most events reported are non-physical assaults All Reported Transit Worker Assaults and Homicides by Severity: April–December 2023



Source: National Transit Database (NTD). CY 2023 data are preliminary. *Starred categories are events that do not result in a transit worker fatality or injury.

Data as of: Apr 2, 2024



Assaults on Transit Workers: NTD Reporting Requirements

Full reporters

Report major events via form S&S-40 within 30 days of the event. Report non-major events via form S&S-50 monthly.

Reduced reporters

Report major and non-major events via form S&S-60 annually, four months after the reporter's fiscal year expires.

New NTD Reporting Requires the <u>Who, What, and Where</u> of Assaults on Transit Workers.

<u>New Reporting Resources</u> <u>Now Available!</u>

New Technical Resource Guides will support transit agencies with additional data reporting requirements.



Bus Collisions





Bus-to-Privately Operated Vehicle (POV) and Bus-to-Person Collisions FY 2019-2023

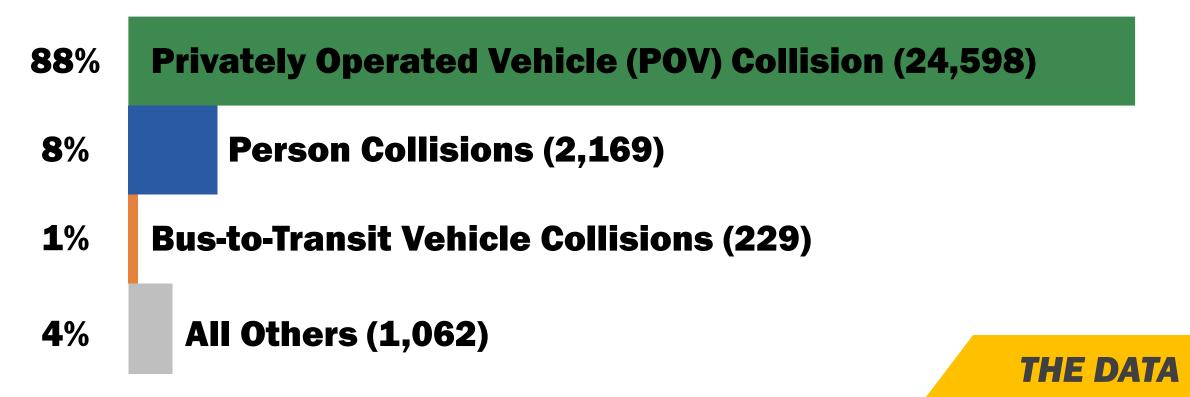
Source: National Transit Database (NTD). FY 2023 data are preliminary.

Includes all transit vehicle collisions with POVs reported to NTD by bus modes. Excludes Suicides.



Bus Transit Vehicle Collisions by Collision Type

Almost 90% of collisions occurred with privately operated vehicles (POVs).



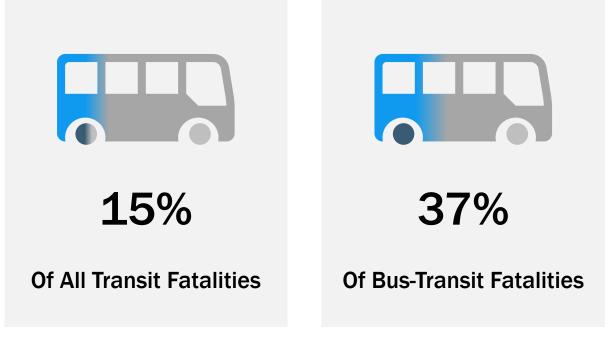


Bus-to-Person Collisions



From 2008 to 2021, transit agencies reported 7,298 busto-person collisions to the National Transit Database, which resulted in 537 fatalities and 7,329 injuries

From 2008 to 2024, Bus-to-Person collisions accounted for:





Bus-to-POV Collisions by Location

The largest percentage of all Bus-to-POV collision events occurred as buses moved through intersections.

40 %	Moving in Intersection (9,945)				
27%	Moving Mid-Block (6,641)				
18 %			At/Around	l Bus Sto	ps (4,407)
14%		Stopped Away From Stop (3,501)			
<1%	All Others (104)				THE DAT
	27% 18% 14%	27% Moving Mid-B 18%	27%Moving Mid-Block18%14%	27% Moving Mid-Block (6,641) 18% At/Around 14% Stopped Away I	27% Moving Mid-Block (6,641) 18% At/Around Bus Stop 14% Stopped Away From Stop



Bus-to-Person Collisions by Location

The largest percentage of bus-to-person collisions events occurred while buses were within intersections.

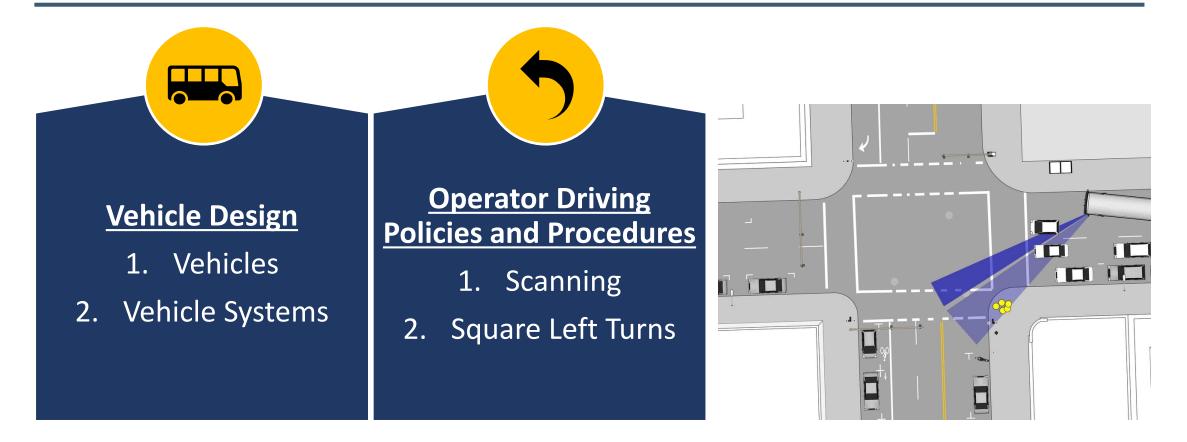
40%	0%	Within Intersections (871)					
Bus-to-Person Collision Events	5%	Mid-Block (750)					
24	4 %	At/Around Bus Stops (528)					
<:	1%	All Others (20)	THE D	DAT			



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Recommended Actions

Transit agencies that focus on **bus operator vision impairment** as a safety hazard may consider the below categories of safety risk mitigations, among others:





Bus Collisions in Intersections

39% of fatalities from bus collisions with vehicles in intersections occurred when the bus turned left.



27% of fatalities and injuries from bus collisions with people in intersections were crosswalk pedestrians hit as the bus made a left turn.

THE DATA



Future Bus Safety Collision Prevention Initiatives



Bus Manufacturers Roundtable Online-based safety manager training covering best practices

Research dedicated to bus design standards and best practices

Research on causal factors of bus-to-POV collisions



Fatigue Risk Management





Why Transit Worker Fatigue?

Studies and medical research indicate that fatigue can negatively affect transportation worker performance, as well as worker health and safety.

97%

of employers in the transportation industry feel the impact of fatigue.

66%

of employers in the transportation industry reported decreases in productivity due to fatigue.

45%

of employers in the transportation industry stated they experienced safety incidents due to fatigue-related issues.



Source: National Safety Council Report "Fatigue in Safety-Critical Industries: Impact, Risks & Recommendations" (2017)



Why Transit Worker Fatigue?

2022 The pedestrian lost his balance and leaned backwards into the streetcar's path and was injured ... upon review of video, the Operator appeared to be sleeping while the streetcar was in motion.

2022 "The operator stated that as he was traveling on Washington Ave., he fell asleep at the wheel and went onto the sidewalk, and contacted two electrical poles."

2022 "[I]t appears the operator started to nod off (potentially falling asleep). The bus drifted off of the road, over the curb contacting a light pole, bus stop location sign, cement box and then came to rest."

Source: National Transit Database and State Safety Oversight Reporting Tool



Regulatory Process To Date – ANPRM





FTA Fatigue Resources Website

For additional information and links to resources on transit worker fatigue, please visit: www.transit.dot.gov/fatigue





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National Roadway Safety Strategy (NRSS) Call to Action Campaign



- U.S. Department of Transportation's NRSS aims to significantly reduce serious injuries and deaths on our nation's roads and highways
- More than 160 Allies in Action support the Call to Action
- Agencies that are taking action:
 - Delaware Transit Corporation
 - Denver Regional Transportation District
 - San Francisco Municipal Transportation
 Agency





Thank you!

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