U.S. Department of Transportation
Federal Transit Administration

Rail Transit Grade Crossing Safety Data

SUMMARY

June 2024

CURRENT TRANSIT RAIL GRADE CROSSING SAFETY LANDSCAPE

The Federal Transit Administration (FTA) analyzes data reported to the National Transit Database (NTD) to monitor transit rail grade crossing (RGX) incidents, injuries and fatalities.

FROM 2016 — 2023:
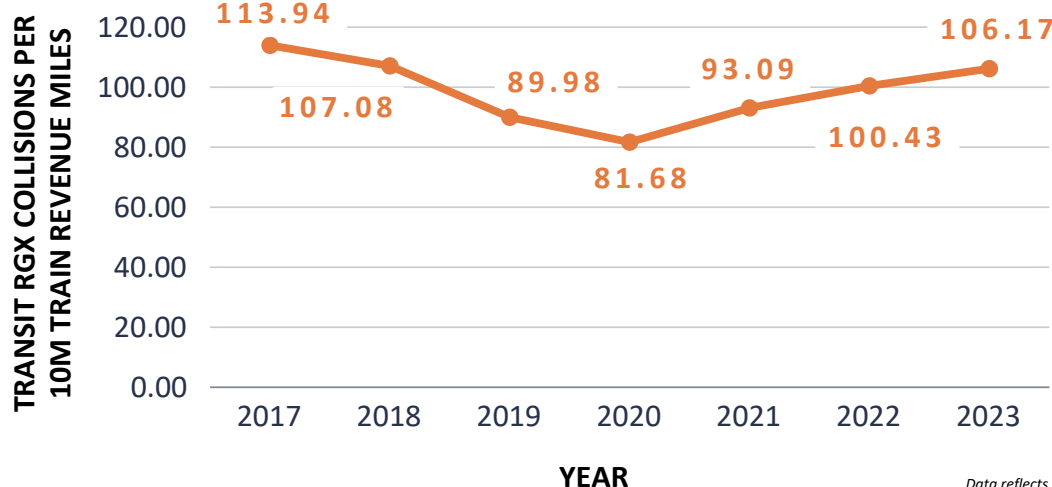
4,369
Total Reported Transit RGX Collisions

116
Transit RGX Collisions Resulting in Fatalities

814
Transit RGX Collisions Resulting in Injuries

TRANSIT RGX COLLISION TRENDS (2017 — 2023)

Chart — TRANSIT RGX COLLISIONS PER 10M TRAIN REVENUE MILES vs YEAR:
- 2017: 113.94
- 2018: 107.08
- 2019: 89.98
- 2020: 81.68
- 2021: 93.09
- 2022: 100.43
- 2023: 106.17

SUMMARY ANALYSIS

After reaching a low in 2020, the transit RGX collision rate per train revenue mile (TRM) has increased for the last three years for which data is available.

Data reflects NTD event submissions through May 2, 2023. 2022 NTD data are preliminary.

INCIDENTS AND COLLISIONS DATA

Transit RGX are often different from conventional RGX due to the inclusion of pedestrians, cars and street traffic. During a recent FTA survey, incidents reported at street intersection crossings were approximately **10 times higher** than at conventional grade crossings.

SEATTLE DOT RGX EXAMPLE

Source: FTA Standards Development Program: Rail Transit Roadway/Pedestrian Grade Crossing Exploratory Report | May 2022.

Source: NTD, 2016-2022.