



DATA SPOTLIGHT: NEW TRENDS, REPORTS, AND TOOLS

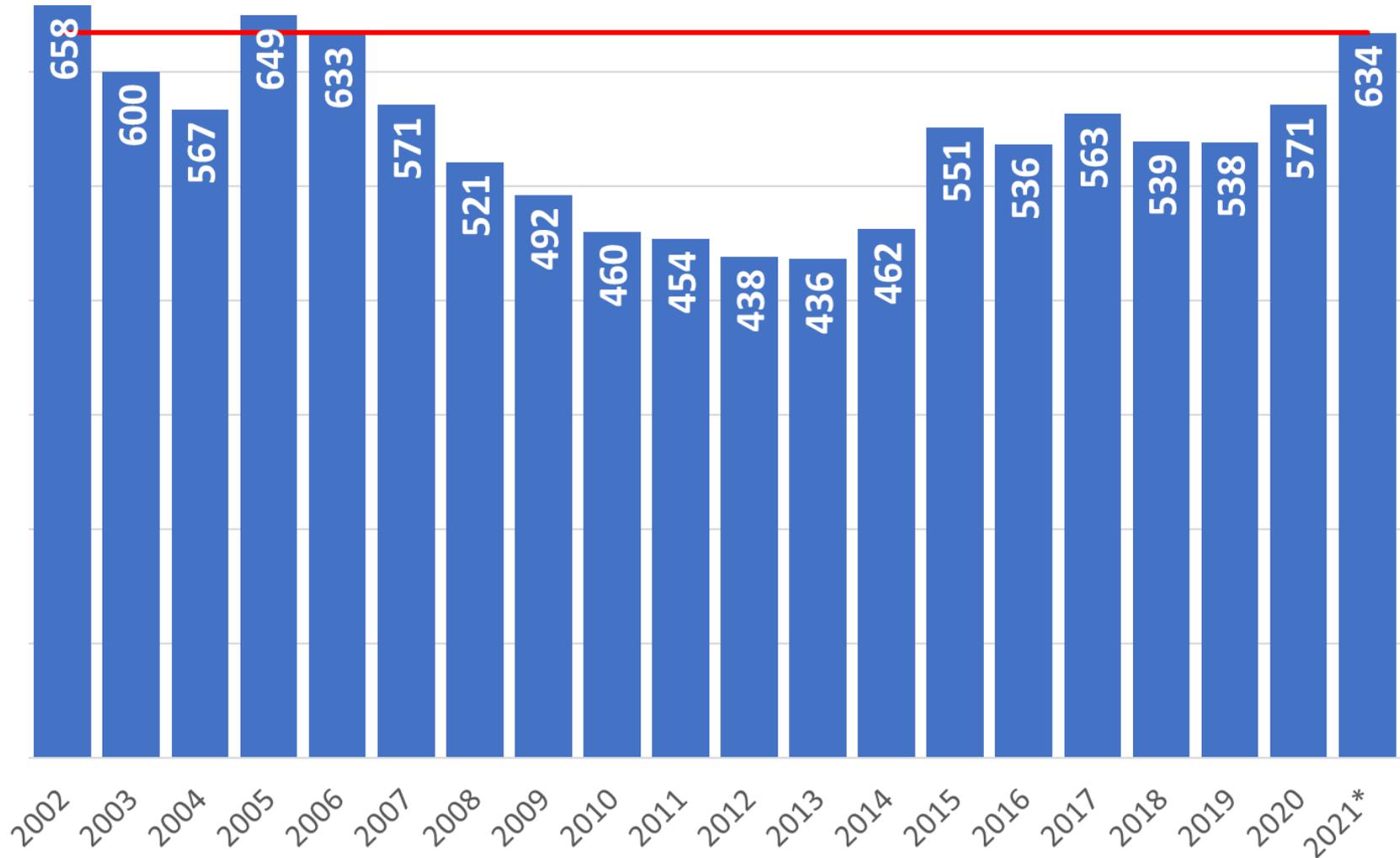
Staci Hoff, Ph.D., Research Director, WTSC

Max Roberts, Ph.D., Research Associate, WTSC

Commissioner's Meeting, January 2022

January 20, 2022

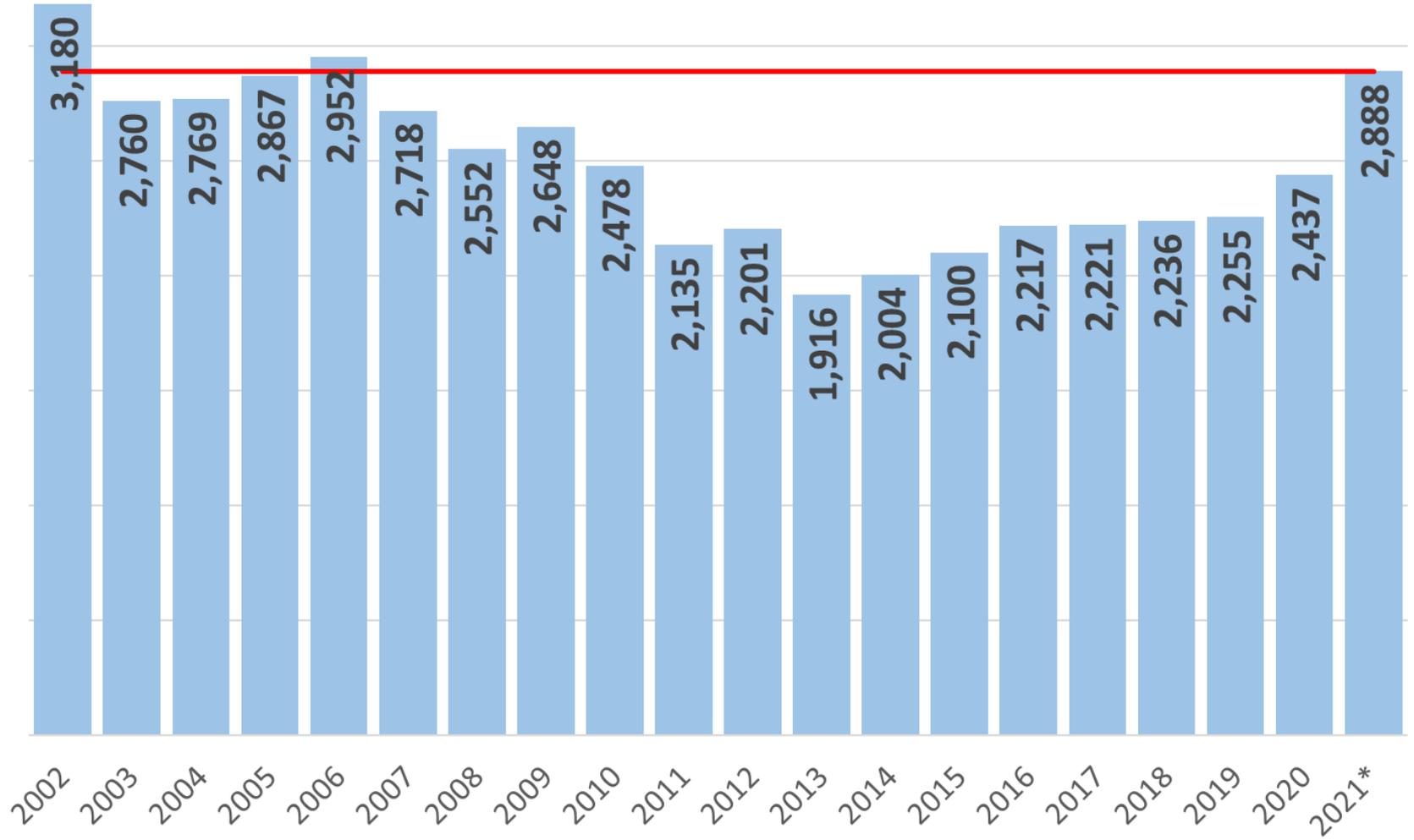
Traffic Fatalities



Data Source: WTSC Coded Fatal Crash (CFC) Files; WSDOT Crash Multirow Flat File as of 1/5/2022; WSDOT Crash Data Portal as of 1/10/2022

*2021 is preliminary and likely to change as more crash reports are received

Traffic Serious Injuries



Data Source: WSDOT Crash Multirow Flat File as of 1/5/2022; WSDOT Crash Data Portal as of 1/10/2022

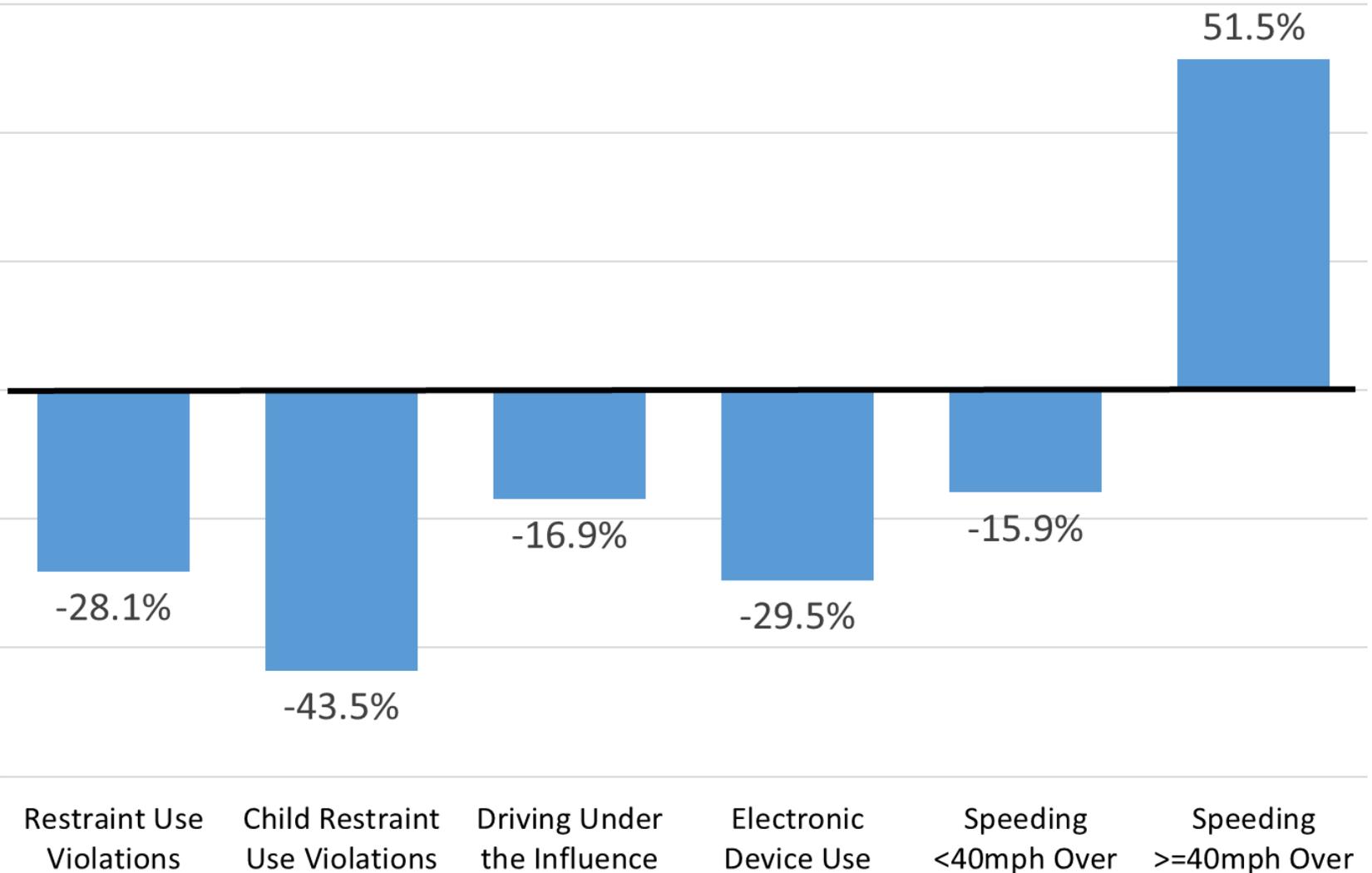
*2021 is preliminary and likely to change as more crash reports are received

WHAT'S HAPPENED SINCE 2019?

Traffic Safety Enforcement has declined

Changes in Traffic Safety Enforcement During COVID Response

(1/1/2019-3/31/2020 versus 5/1/2020-7/31/2021 (15 month pre-/post- Excluding April 2020))

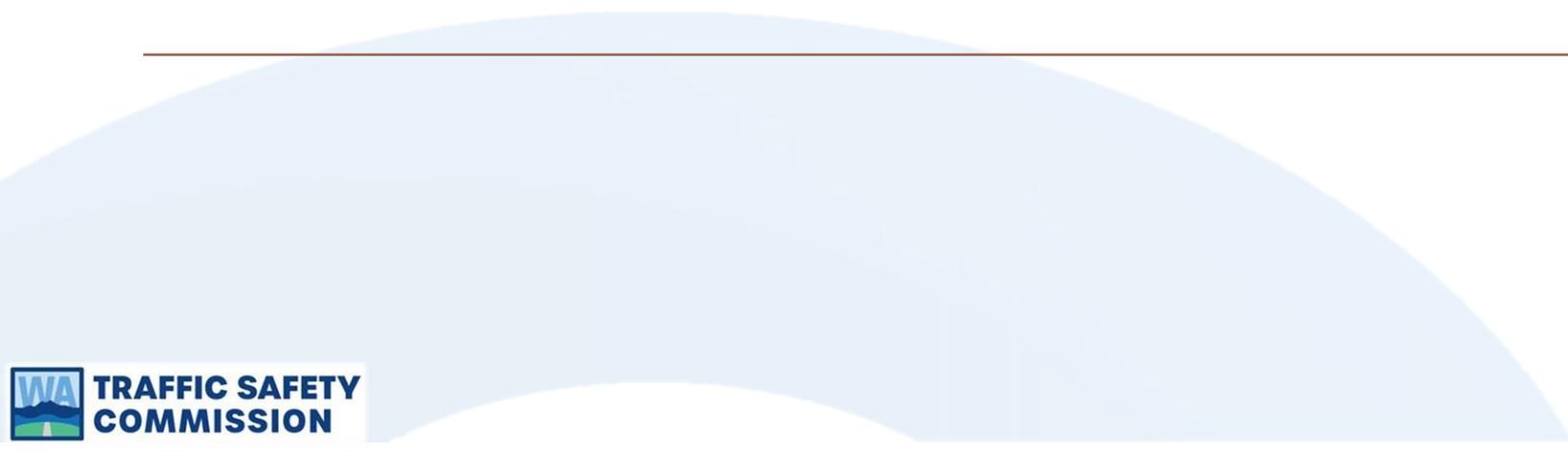


Data Source: Administrative Office of the Courts, Data Dissemination Services, 12/14/2021. *King County District Court data not included.

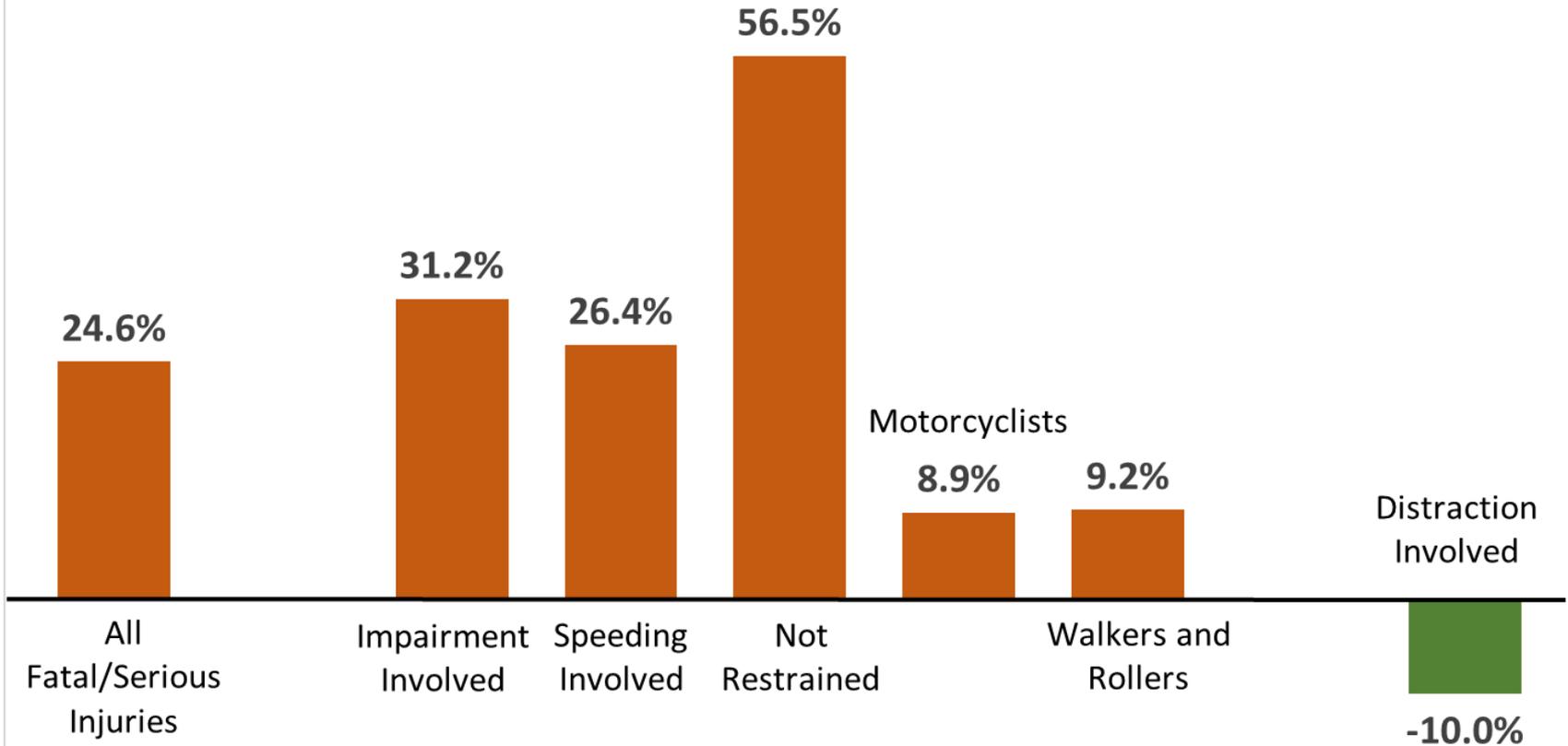
WHAT'S HAPPENED SINCE 2019?

Traffic Safety Enforcement has declined

High risk behaviors are on the rise (impaired driving, high speeds, safety restraint use)



High Risk Factors in Washington Traffic Fatal/Serious Injuries Percent Change in 2021 compared to 2019



Data Source: WSDOT Crash Multirow Flat File as of 1/5/2022

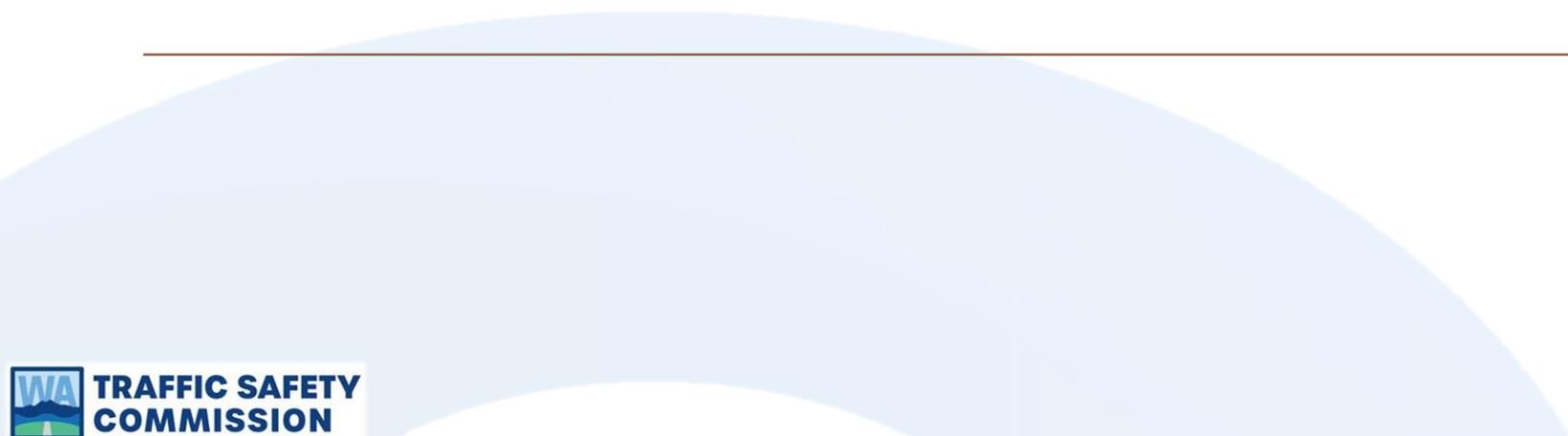
*2021 is preliminary and likely to change as more crash reports are received

WHAT'S HAPPENED SINCE 2019?

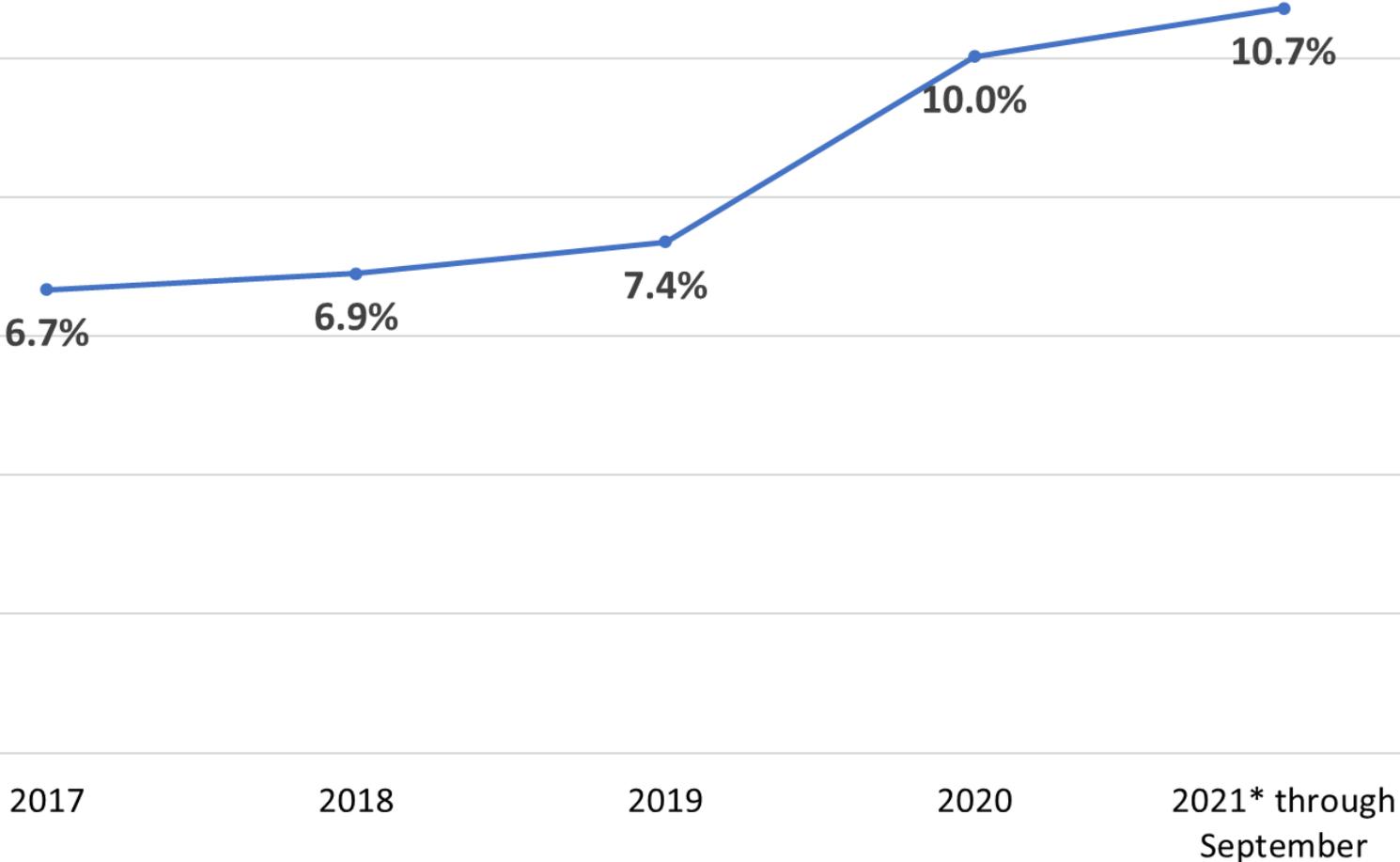
Traffic Safety Enforcement has declined

High risk behaviors are on the rise (impaired driving, high speeds, safety restraint use)

Crashes are more severe and there are more fatalities per crash (more vehicles/persons involved)



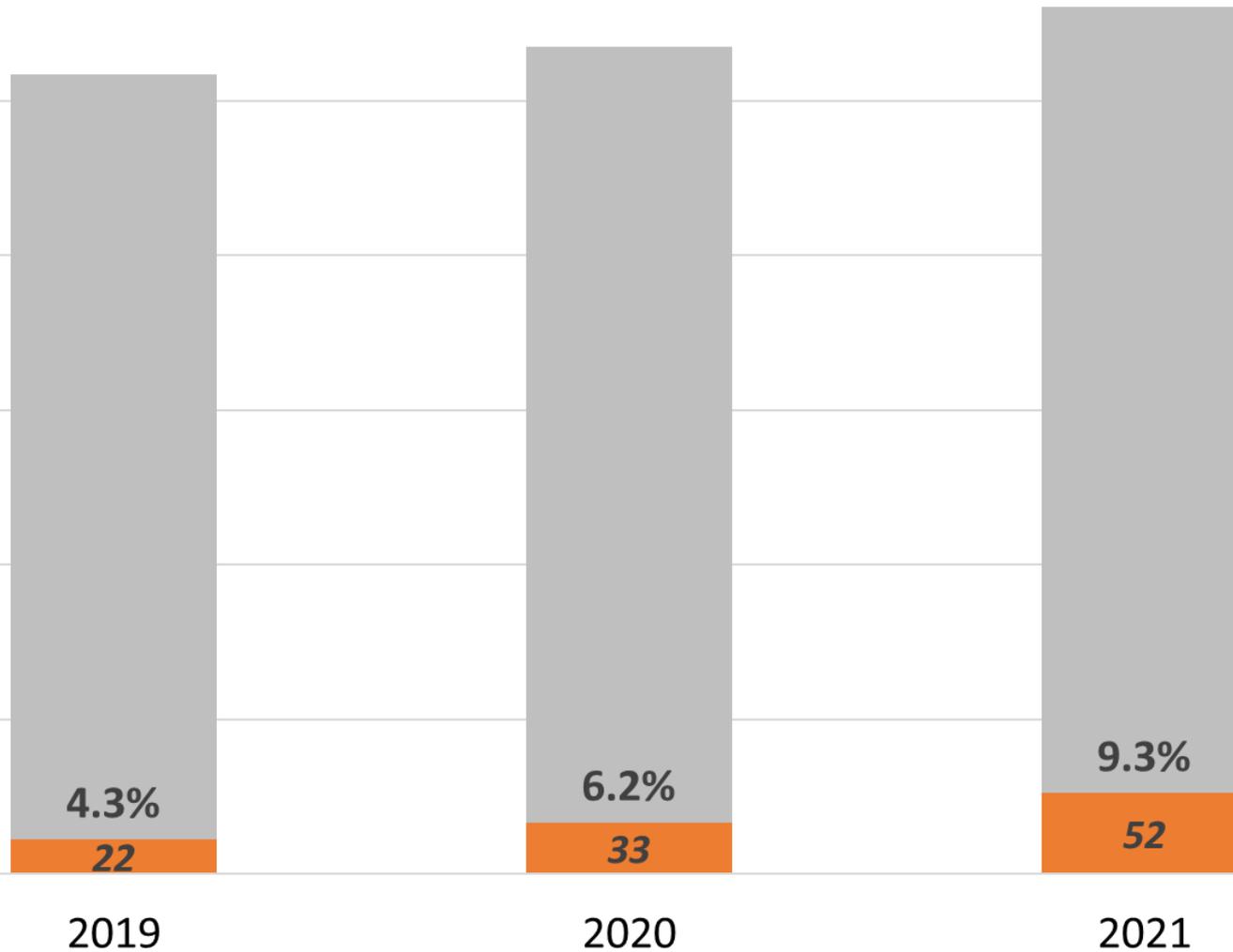
Proportion of Washington Injury Crashes that are Fatal or Serious



Data Source: WSDOT Crash Data Portal, 10 Year Crash Summary as of 1/10/2022, WSDOT Safety COVID-19 Transportation System Reporting as of 1/10/2022

*2021 is preliminary and likely to change as more crash reports are received

Washington Fatal Crashes with Two or More Fatalities



Data Source: WSDOT Crash Multirow Flat File as of 1/5/2022

*2021 is preliminary and likely to change as more crash reports are received

WHAT'S HAPPENED SINCE 2019?

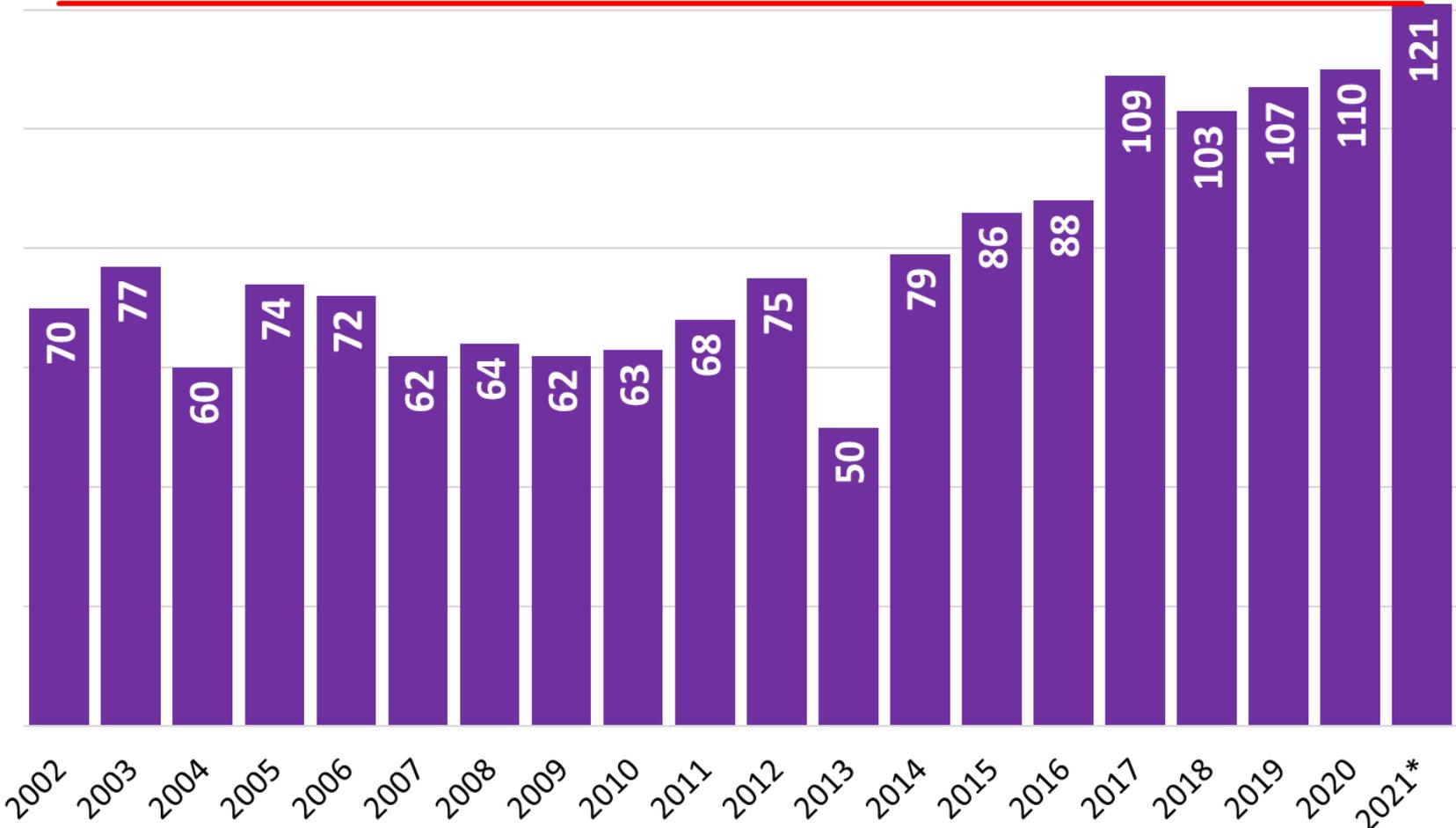
Traffic Safety Enforcement has declined

High risk behaviors are on the rise (impaired driving, high speeds, safety restraint use)

Crashes are more severe and there are more fatalities per crash (more vehicles/persons involved)

Vulnerable road user deaths continue to rise to record-breaking numbers

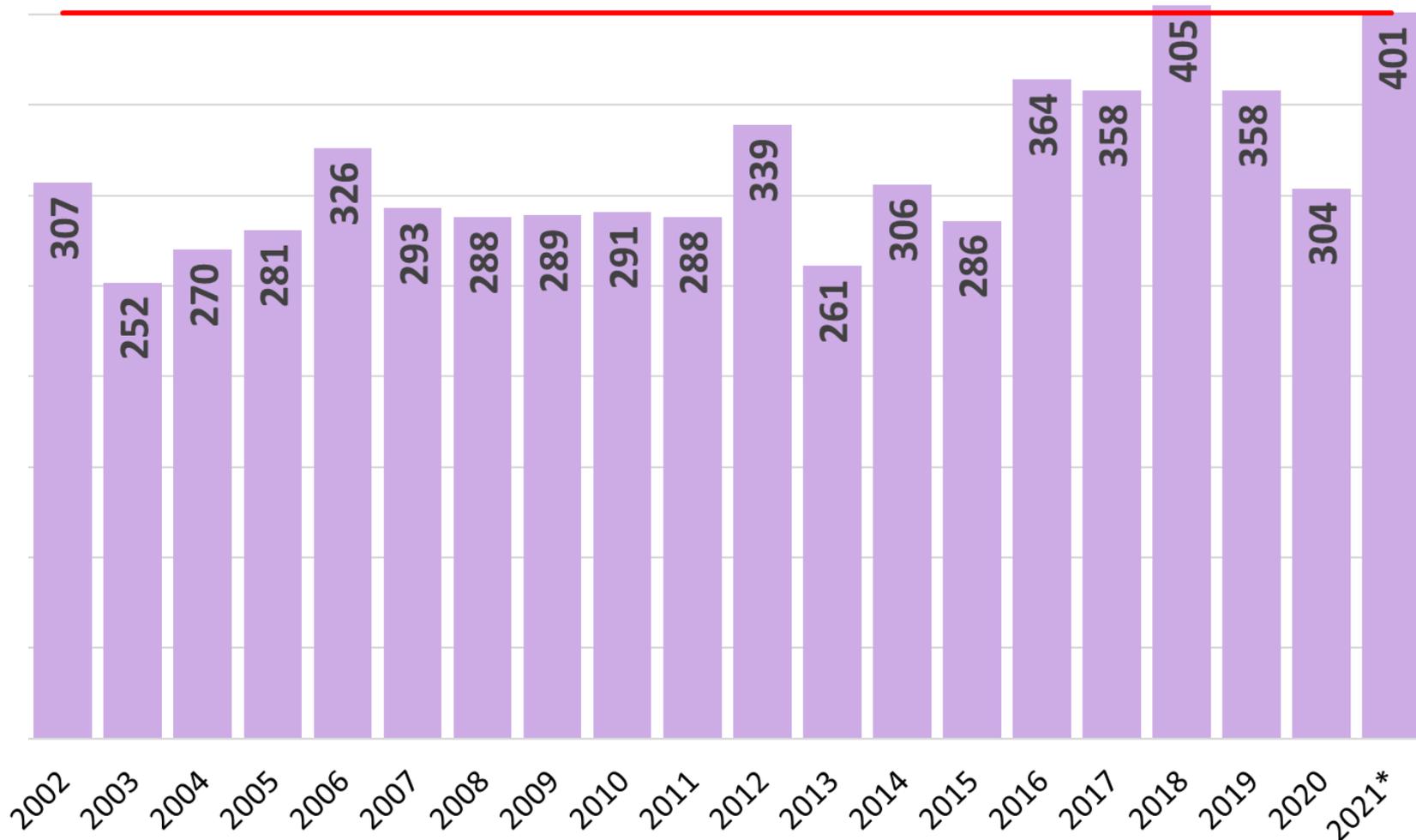
Washington Pedestrian Fatalities



Data Source: WTSC Coded Fatal Crash (CFC) Files; WSDOT Crash Multirow Flat File as of 1/5/2022; WSDOT Crash Data Portal as of 1/10/2022

*2021 is preliminary and likely to change as more crash reports are received

Washington Pedestrian Serious Injuries

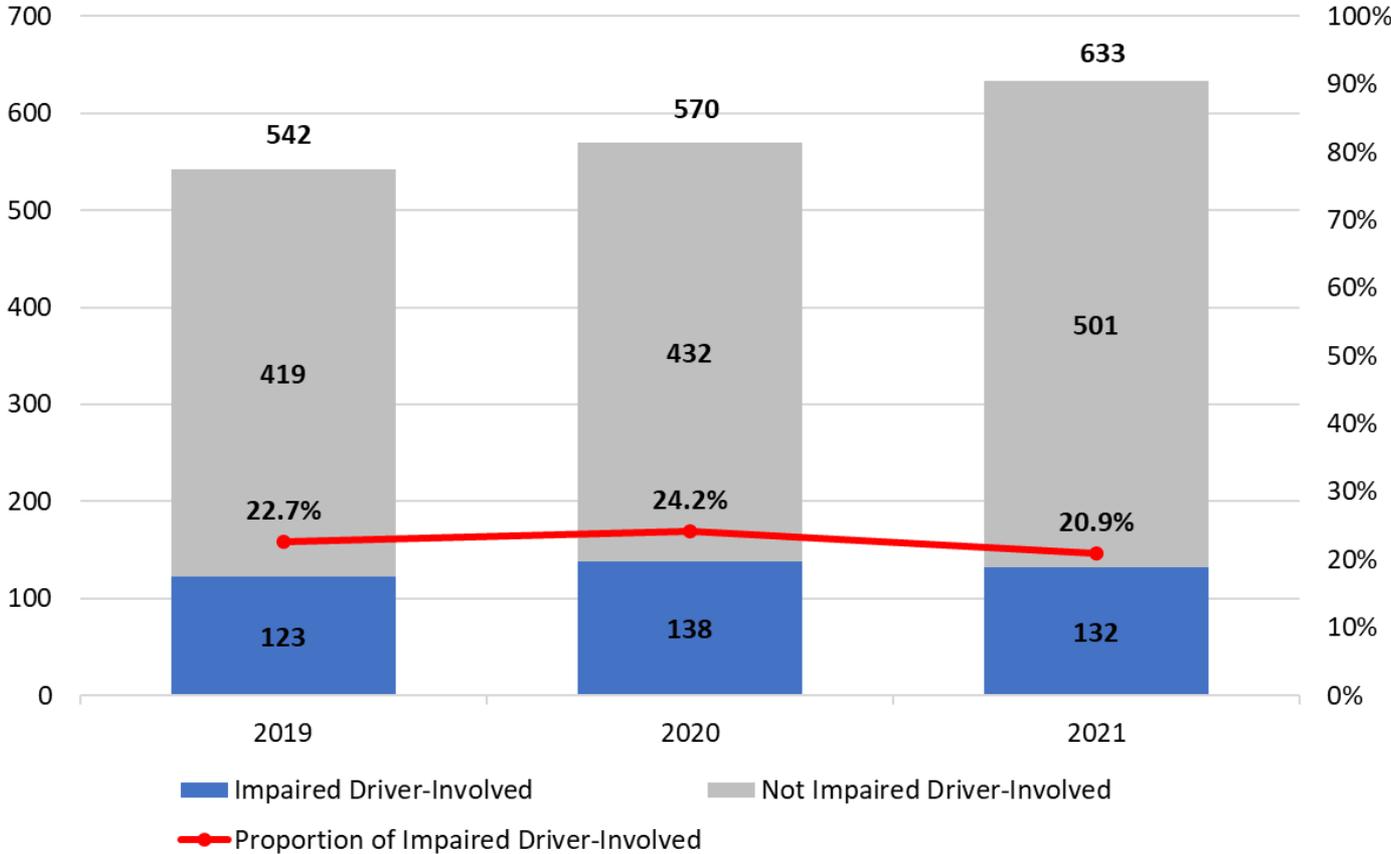


Data Source: WSDOT Crash Multirow Flat File as of 1/5/2022;
WSDOT Crash Data Portal as of 1/10/2022

*2021 is preliminary and likely to change as more crash reports are received

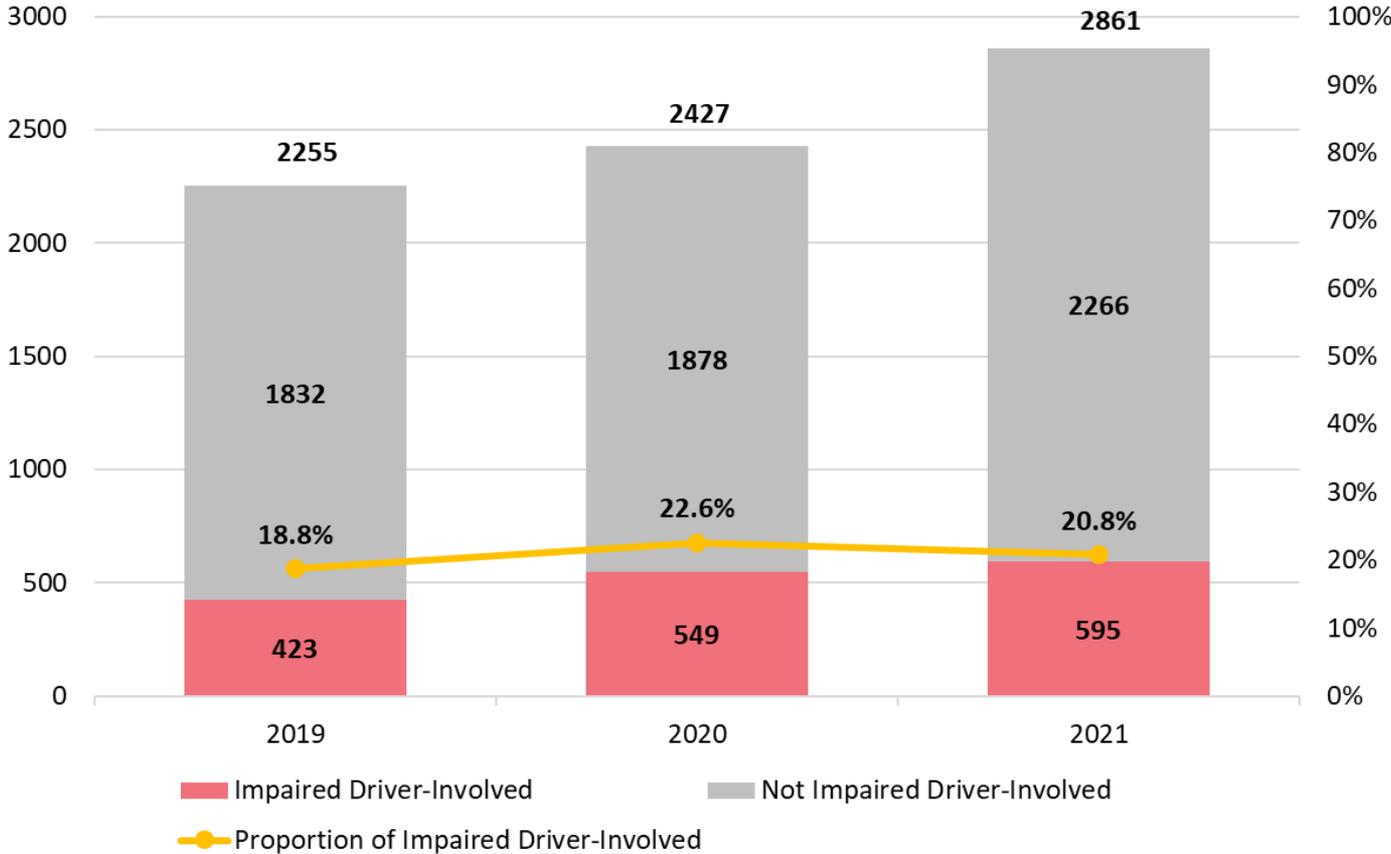
IMPAIRMENT-INVOLVED FATALITIES AND SERIOUS INJURIES

Number and Proportion of Officer-Reported Impaired Driver-Involved Fatalities (Percent of Total Fatalities)



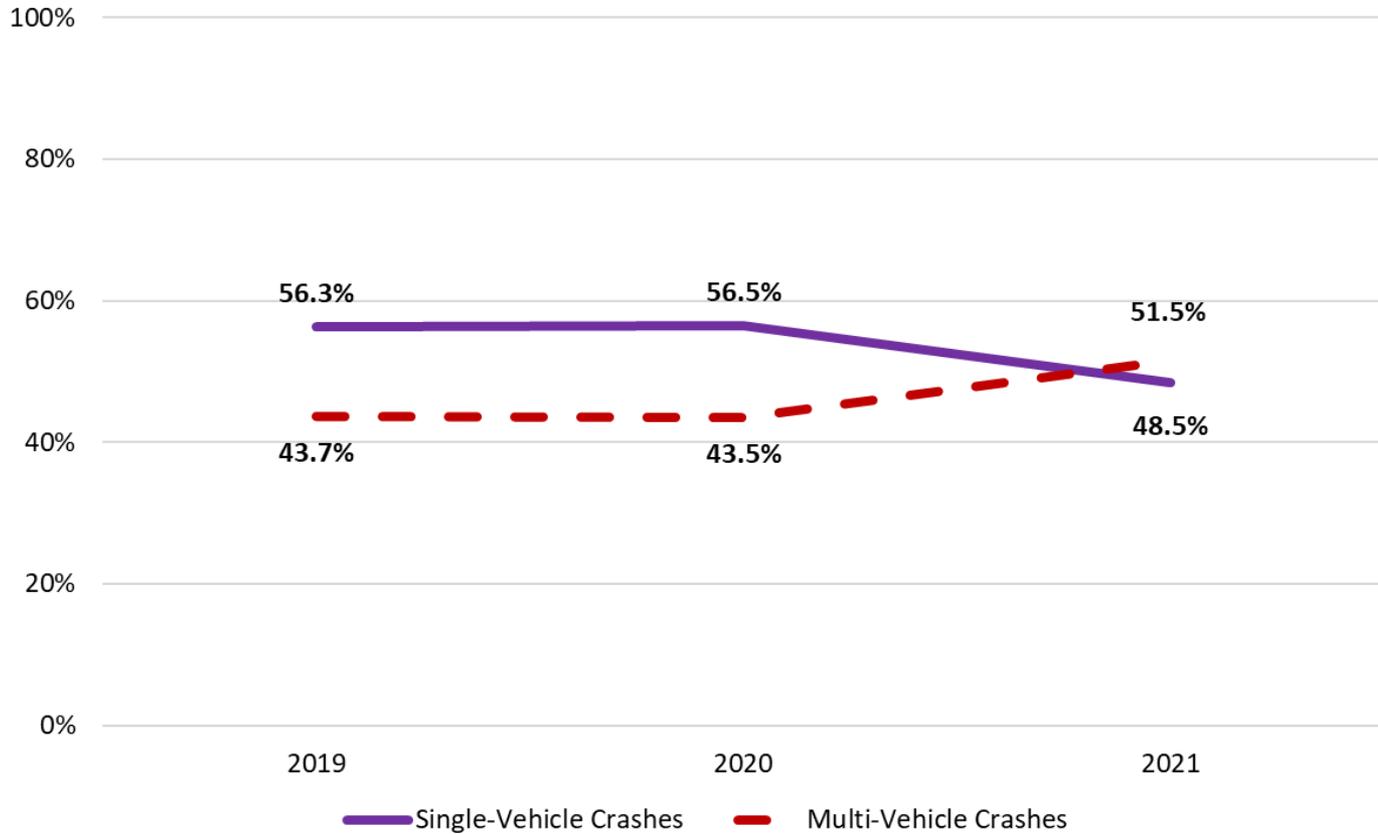
Data source: Washington State Department of Transportation, Officer Reported Impairment

Number and Proportion of Officer-Reported Impaired Driver-Involved Serious Injuries (Percent of Total Serious Injuries)



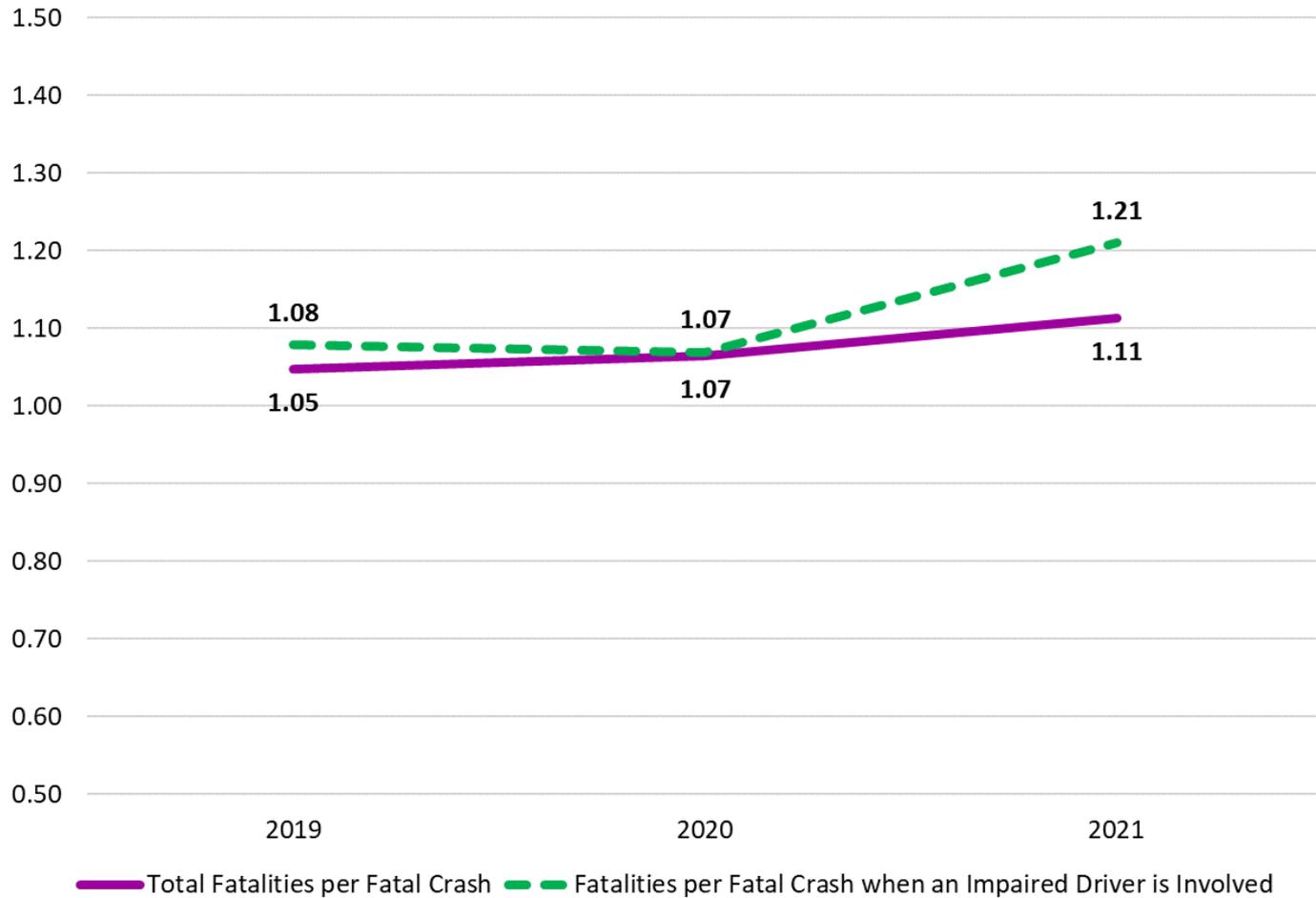
Data source: Washington State Department of Transportation, Officer Reported Impairment

Proportion of Single- and Multi-Vehicle Fatal and Serious Crashes when an Officer-Reported Impaired Driver is involved
(Percent of Total Fatal and Serious Crashes when an Officer-Reported Impaired Driver is involved)



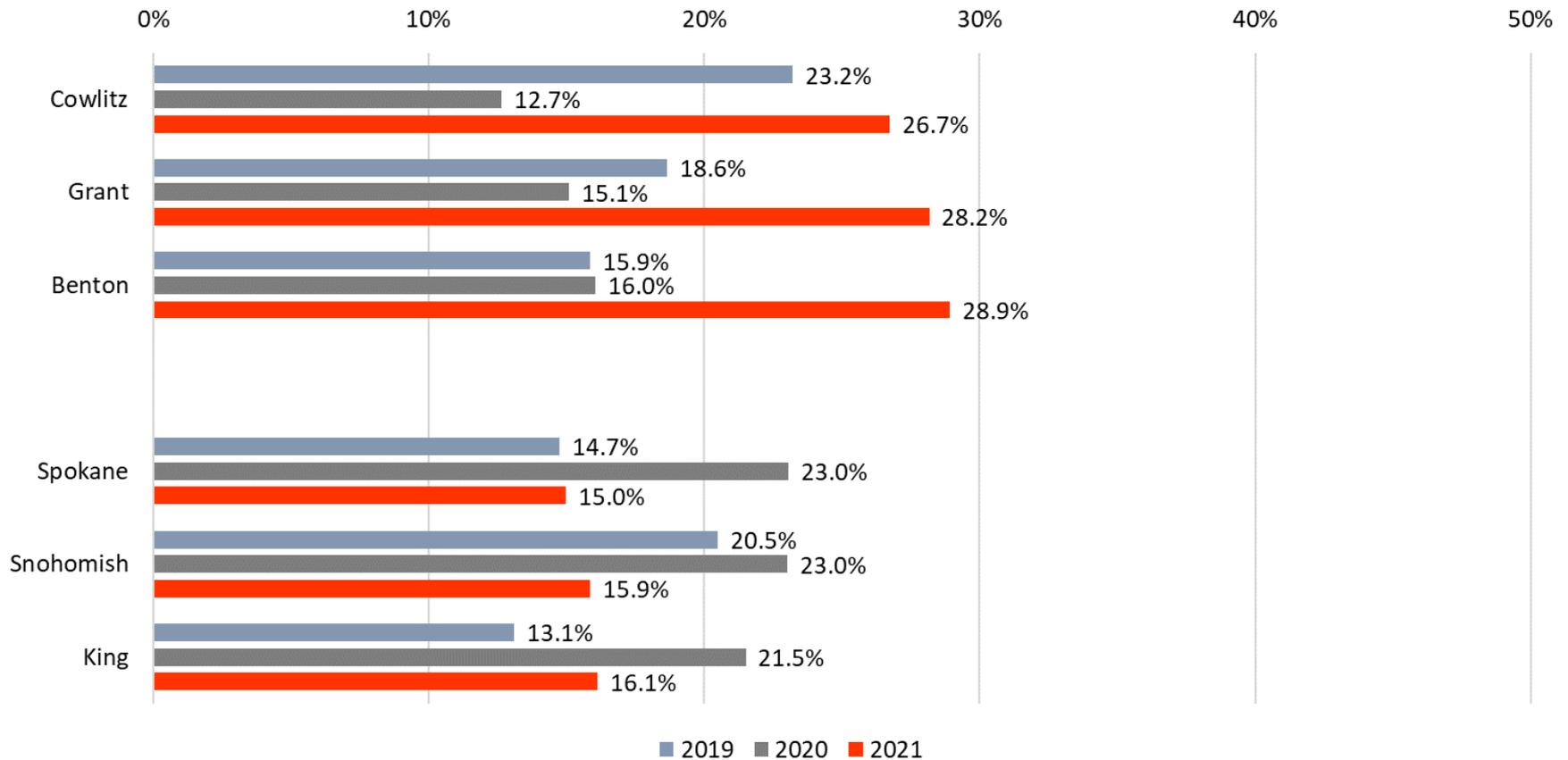
Data source: Washington State Department of Transportation, Officer Reported Impairment

Average Fatalities per Fatal Crash



Data source: Washington State Department of Transportation, Officer Reported Impairment

Proportion of Officer-Reported Impaired Driver-Involved Fatalities and Serious Injuries by County* (Percent of Total Fatalities and Serious Injuries)

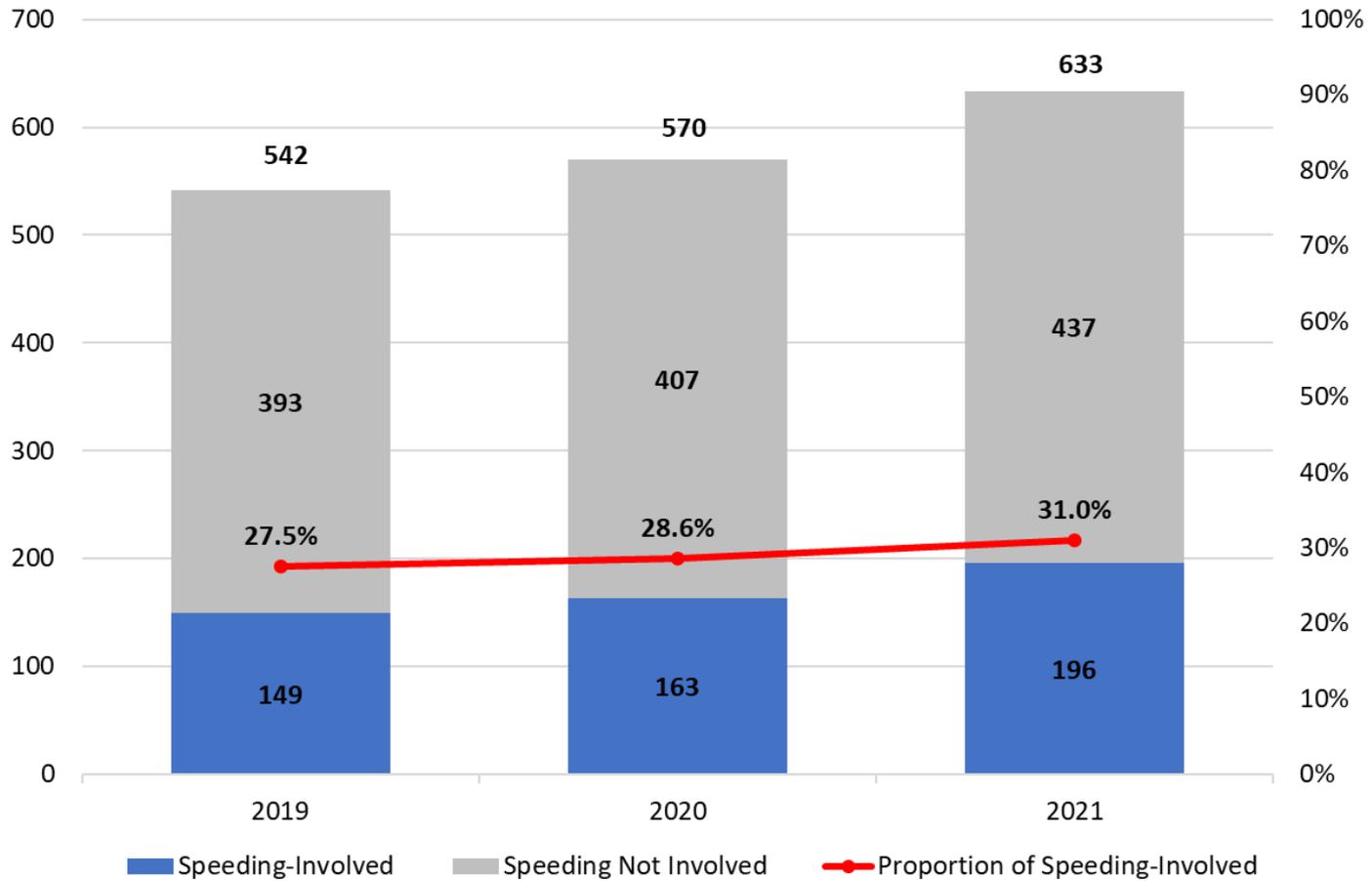


*Minimum 20 Fatalities and Serious Injuries in 2021

Data source: Washington State Department of Transportation, Officer Reported Impairment

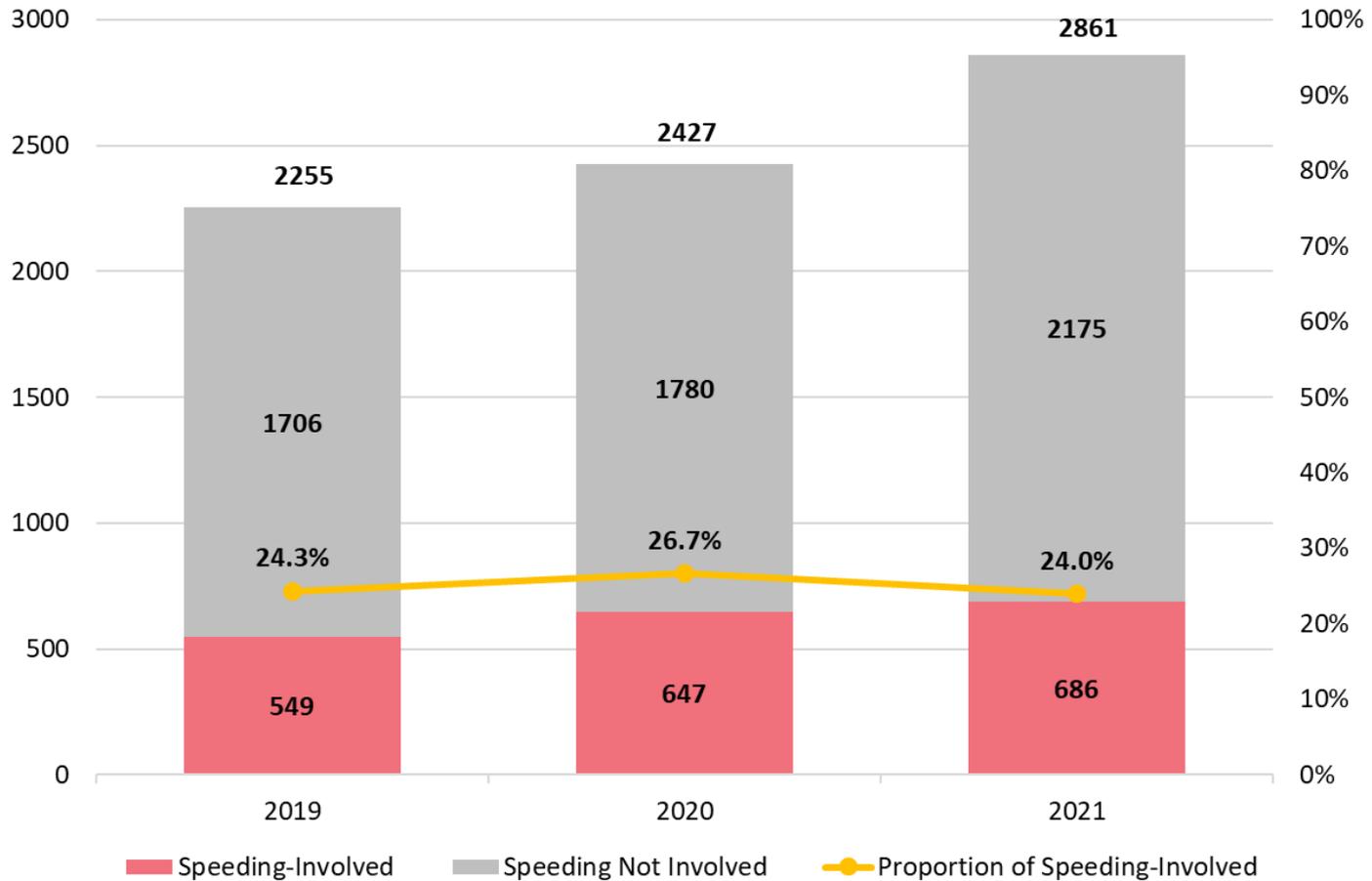
SPEEDING-INVOLVED FATALITIES AND SERIOUS INJURIES

Number and Proportion of Speeding-Involved Fatalities (Percent of Total Fatalities)



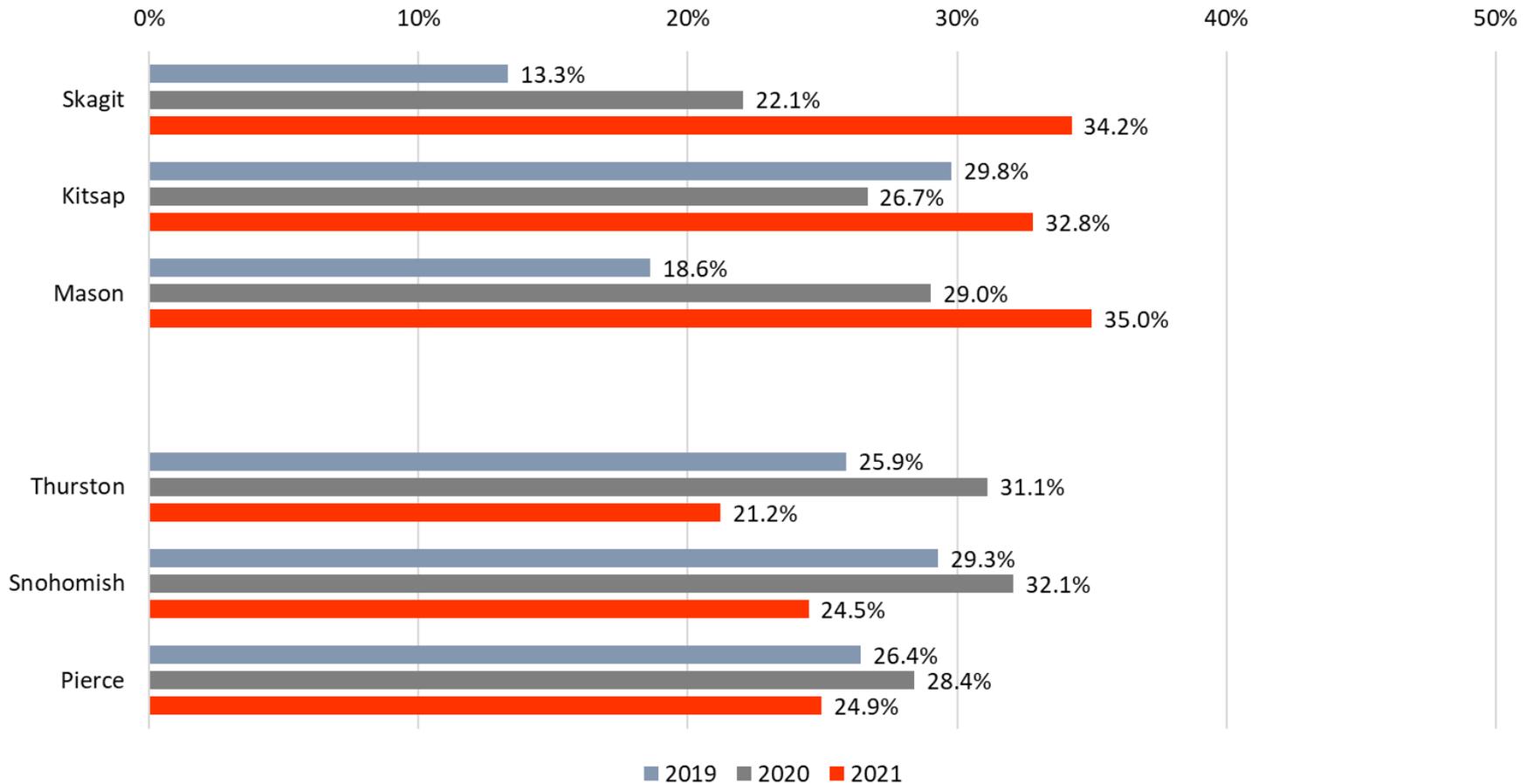
Data source: Washington State Department of Transportation

Number and Proportion of Speeding-Involved Serious Injuries (Percent of Total Serious Injuries)



Data source: Washington State Department of Transportation

Proportion of Speeding-Involved Fatalities and Serious Injuries by County* (Percent of Total Fatalities Serious Injuries)

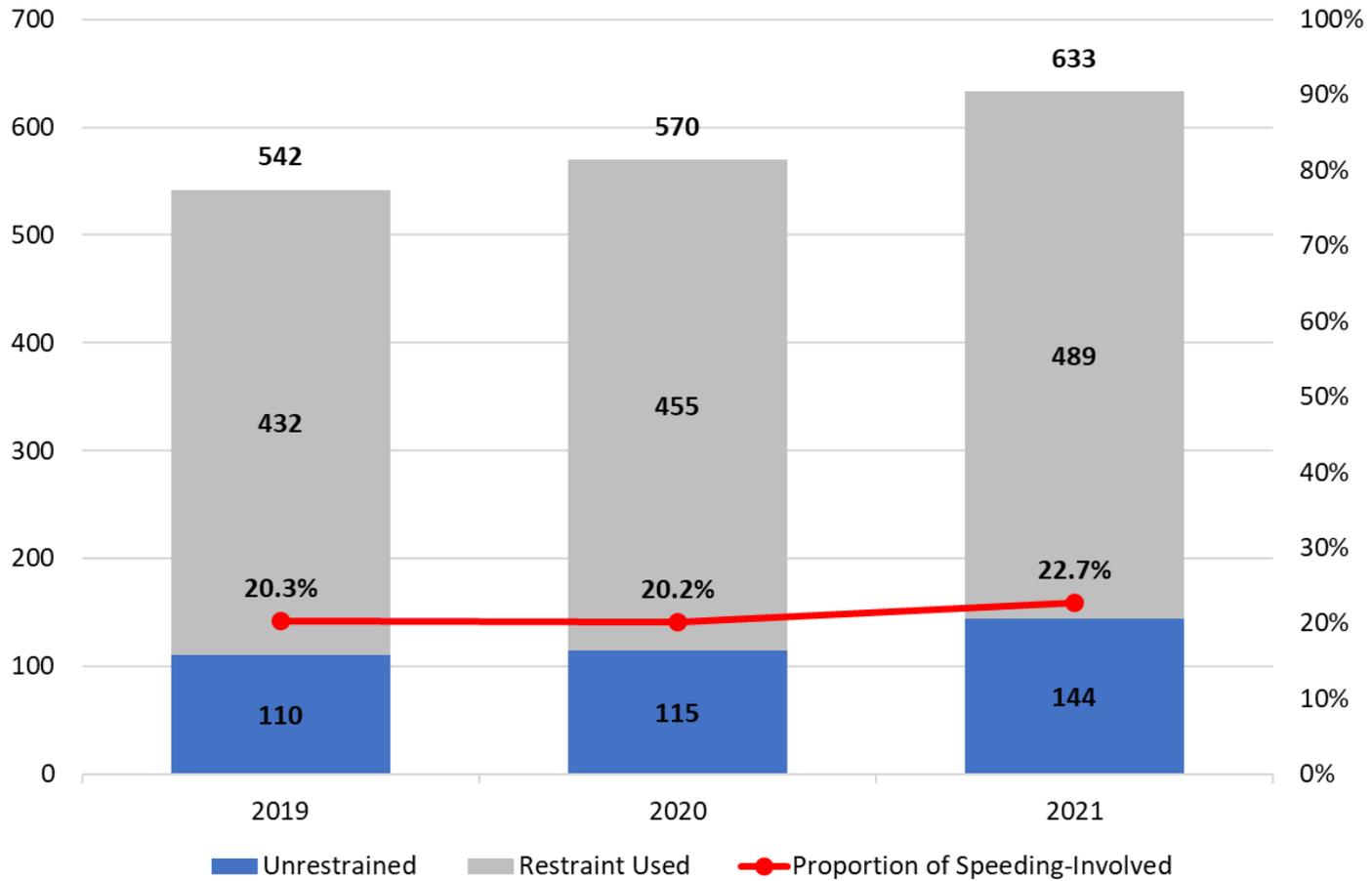


* Minimum of 20 Fatalities and Serious Injuries in 2021

Data source: Washington State Department of Transportation

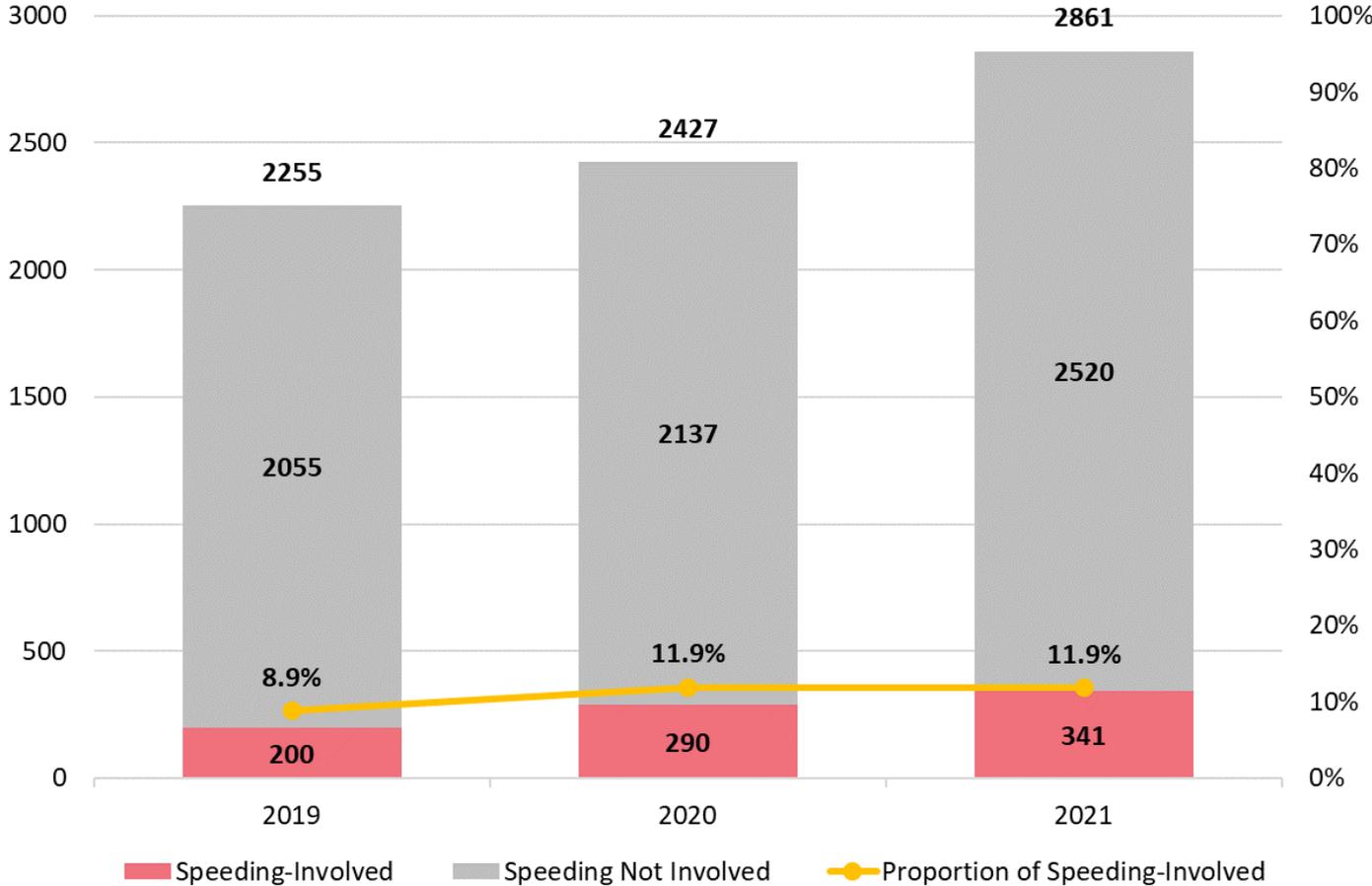
UNRESTRAINED FATALITIES AND SERIOUS INJURIES

Number and Proportion of Unrestrained Fatalities (Percent of Total Fatalities)



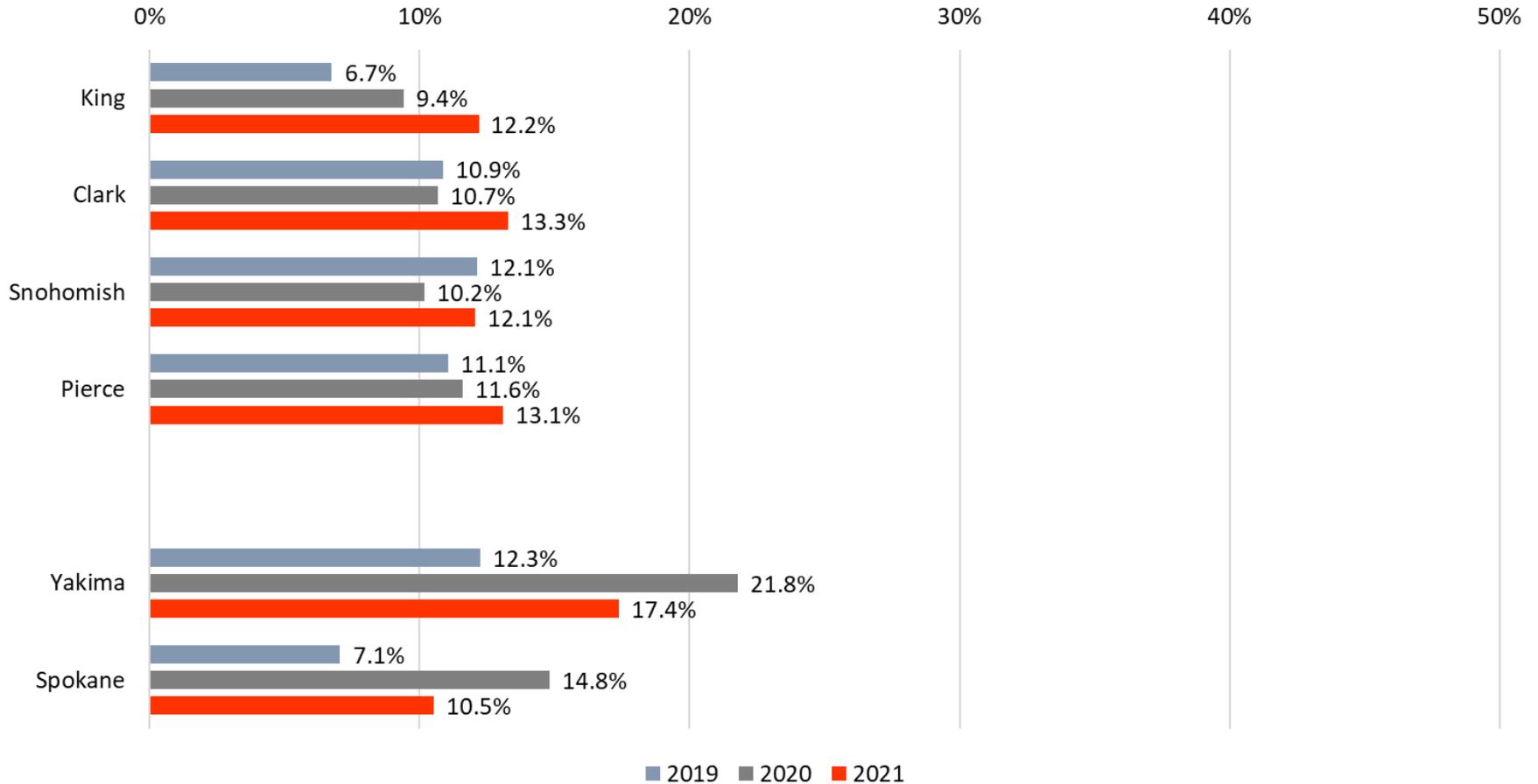
Data source: Washington State Department of Transportation

Number and Proportion Unrestrained Serious Injuries (Percent of Total Serious Injuries)



Data source: Washington State Department of Transportation

Proportion of Unrestrained Fatalities and Serious Injuries by County* (Percent of Total Fatalities and Serious Injuries)



* Minimum of 20 Fatalities and Serious Injuries in 2021
 Data source: Washington State Department of Transportation

RESEARCH PRODUCTS

- <https://wtsc.wa.gov/research-data/traffic-safety-reports/>



Traffic Safety In-Depths & Reports

[Overview](#) | [Traffic Safety Reports](#) | [Crash Data Dashboards](#) | [Request Fatal Crash Data](#)



Impairment

Post-DUI Driver Crash Risk

A two-page summary of a literature review followed by individual article/source summaries.

Published June 2019

Cannabis Involvement Among Drivers in Fatal Crashes

A two-page brief summarizing data from 2010 to present (updated as final data is released).

Published February 2021

Marijuana Use, Alcohol Use, and Driving in Washington State: Emerging Issues with Poly-Drug Use on Washington Roadways

An in-depth report analyzing linked fatal crash and toxicology data 2008-2016, 2014-2015 roadside surveys, and self-report surveys.

Published May 2019

RESEARCH PRODUCTS IN 2021

- Seatbelt Use in Washington State 2020, *January 2021*
- Cannabis Involvement among Drivers in Fatal Crashes, *February 2021*
- Executive Summary: Perceptions of DREs and DRE Evidence, *February 2021*
- Perceptions of DREs and DRE Evidence: A Qualitative Analysis of the Police, Prosecution, and Defense, *February 2021*
- Distracted Driving in Washington State During COVID-19: 2020 Observation Survey, Enforcement, and Crashes, *March 2021*
- American Indian/Alaska Native (AIAN) Traffic Deaths, *April 2021*
- DREs and Case Outcomes: A Case Study Examination of the Role of DRE Evaluations and Involvement in Spokane, Washington, *July 2021*
- Executive Summary: DREs and Case Outcomes, *September 2021*
- Unlicensed Drivers on Washington Roads, *October 2021*
- Distracted Driver Observation survey result, *December 2021*



DATA TOOLS & DATA DASHBOARD DEMONSTRATION

- Data Dashboards – <https://wtsc.wa.gov/research-data/dashboards/>

The screenshot shows the website for the Washington Traffic Safety Commission's Crash Data Dashboards. At the top left is the logo for the Traffic Safety Commission. At the top right are navigation links: "THE COMMISSION | MEETINGS/EVENTS | NEWS | CONTACT US" with a search icon. The main header features a scenic background image of a forested hillside with the text "Crash Data Dashboards" in large white font. Below the header is a navigation menu with four items: "Overview", "Traffic Safety Reports", "Crash Data Dashboards" (highlighted in green), and "Request Fatal Crash Data". The main content area has a sub-header: "Dynamic performance data tools for state, county, and city-level crash information" followed by a link "Data Dashboard Orientation and Demonstration". The content is organized into three columns: "General", "Topic-Specific", and "Partner Data Sources". Under "General" are two buttons: "Target Zero Performance Dashboard" and "Fatal Collision Map". Under "Topic-Specific" is one button: "Child Passenger-Vehicle Occupants & Drivers of Child Occupants". Under "Partner Data Sources" is one button: "Crash Data Portal". To the right of the "Crash Data Portal" button is a paragraph of text: "The Washington State Department of Transportation also makes statewide crash data available for all injury severities on the Crash Data Portal."

Thank You

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