



Greater Hickory MPO Crash Summaries

2016-2023 Crash Data

Introduction

The Greater Hickory MPO (GHMPO) Crash Summaries report gives an overview of crash history in the GHMPO Region. The report shows a data-informed snapshot of transportation safety in the region and serves as a summary of the data analysis performed as a foundation to the **Western Piedmont Transportation Safety Plan (TSP).**

How to Read this Report

The report is divided into 3 sections:

- Overview—detailing crash histories for the full region (2016 2023)
- Vulnerable Road Users—detailing bicycle and pedestrian crash histories for the region and by county. (2016 2022)
- Counties—detailing crash histories for Alexander, Burke, Caldwell, and Catawba counties (2016 – 2022)

Key terminology used in this report

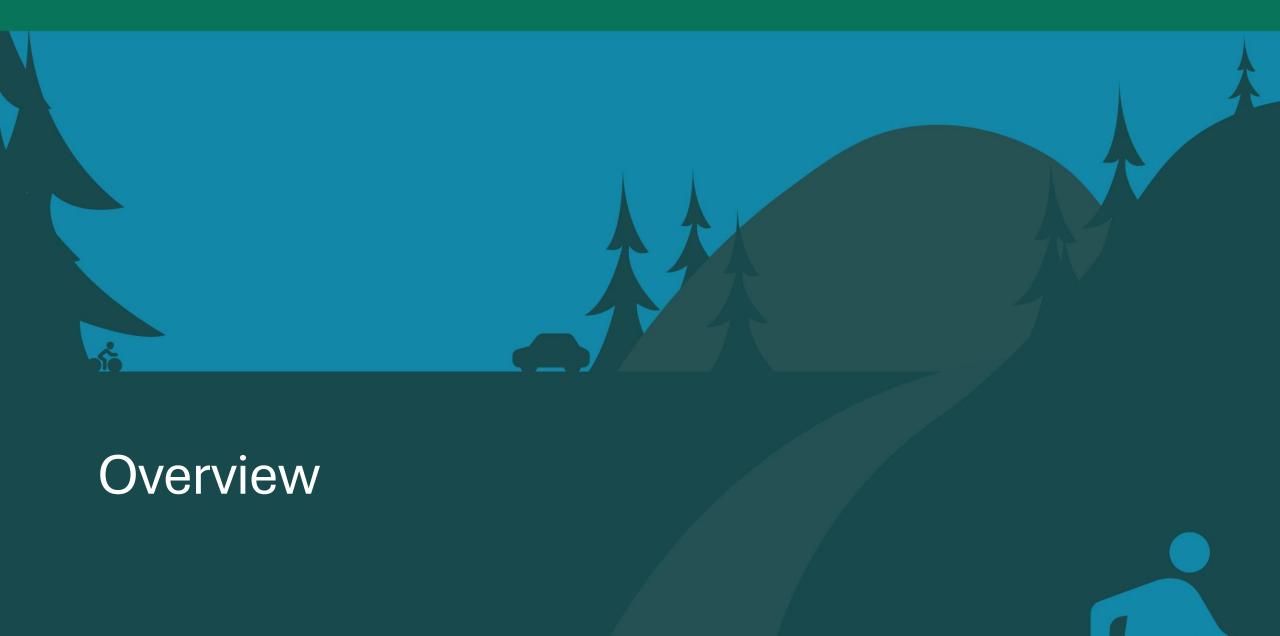
Crash Types—Crash types are derived from crash reports filled out by law enforcement. The following crash types are used in this report:

- 1. Collision with a fixed object (tree, pole, sign, guardrail, curb/median, etc.)
- 2. Head-On: head on collision of motor vehicles moving in opposite directions in which initial contact is on the fronts of both vehicles.
- 3. Overturn/Rollover: crash in which a motor vehicle in transport overturns for any reason without antecedent collision.
- 4. Vulnerable Road User: collision with a pedestrian or bicyclist (pedalcyclist).
- 5. Angle: collision most often resulting in the vehicles hitting at or near right angles, with the front of one vehicle striking the side of the other vehicle. Most often occurs at an intersection when two vehicles are going straight on intersecting roads and neither vehicle is turning.
- 6. Left-Turn: collision of vehicles with one or multiple turning left.
- 7. Sideswipe: the collision of motor vehicles, traveling in the same

- direction, in which contact usually results from attempting to pass too closely, skidding, or other side-to-side initial contact. Damage is generally along entire side of vehicle.
- 8. Rear End: rear end collision.
- 9. Ran Off Road: vehicle runs off roadway.
- **10. Collision with a Parked Vehicle**: any crash involving motor vehicle in transport and a motor vehicle not in transport.
- 11. Collision with a Movable Object (objects dropped from a motor vehicle, fallen tree, etc.)
- **12. Right-Turn**: collision of vehicles with one or multiple turning right.
- 13. Collision with Animal
- **14. Single Vehicle:** "Jackknife" crash where a trailing unit(s) and the pulling vehicle rotate with respect to each other.
- 15. Other/Miscellaneous

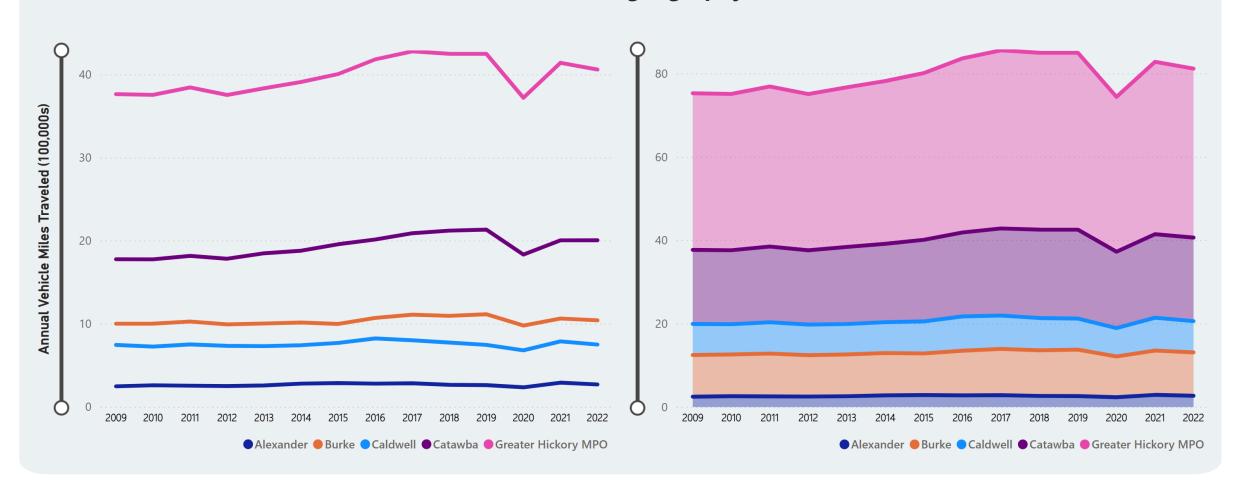
Key terminology used in this report

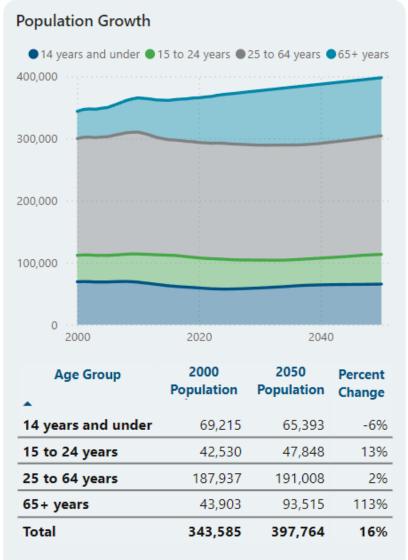
- Emphasis Areas—the following statewide safety emphasis areas are used in this report:
 - Lane Departure: Crashes that occur due to a driver leaving their lane. Includes run-off-road, fixed object, head-on, rollover, and sideswipe-opposite direction crash types.
 - Intersections: Crashes occurring at intersections or considered intersection-related, including driveways, alleys, and on- and off-ramp terminal crossroads.
 - Vulnerable Road User: Pedestrians, bicyclists, and users of personal mobility, which includes transportation modes such as scooters, skateboards, assistive devices, and other emerging mobility options that lack physical protection from other vehicles.
 - Seat Belts and Car Seats: Crashes involving unrestrained or improperly restrained motor vehicle occupants.
 - Impaired Driving: Crashes that involve a driver in which alcohol or drug impairment is suspected or detected.
 - **Speed:** Crashes where the reporting officer noted the driver's contributing circumstances as "exceeding authorized speed limit" or "exceeding safe speed for conditions."
 - Older Drivers: Crashes involving older drivers (ages 65 and older).
 - Motorcycle: Crashes involving motorcyclists. Motorcycles are defined as a two-wheeled motor vehicle having one or more riding saddles, and sometimes a third wheel for the support of a sidecar. The sidecar is considered a part of the motorcycle.
 - Younger Drivers: Crashes involving younger drivers (ages 15 to 19).

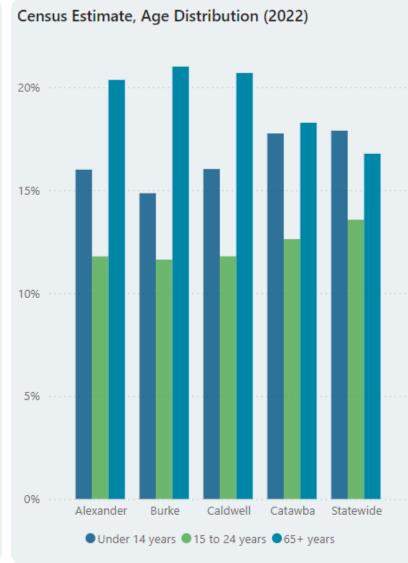


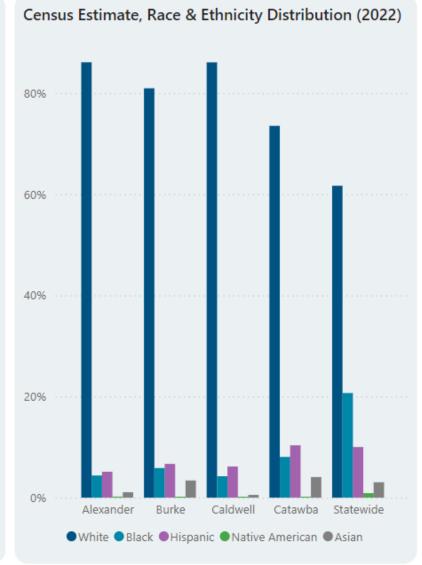


Between 2009 and 2022 Annual VMT changed by 7.9 % for all selected geography









Emphasis Areas



INTERSECTIONS



LANE DEPARTURE



OCCUPANT PROTECTION



ALERTNESS



SPEED



MOTORCYCLISTS



YOUNGER DRIVERS



OLDER DRIVERS

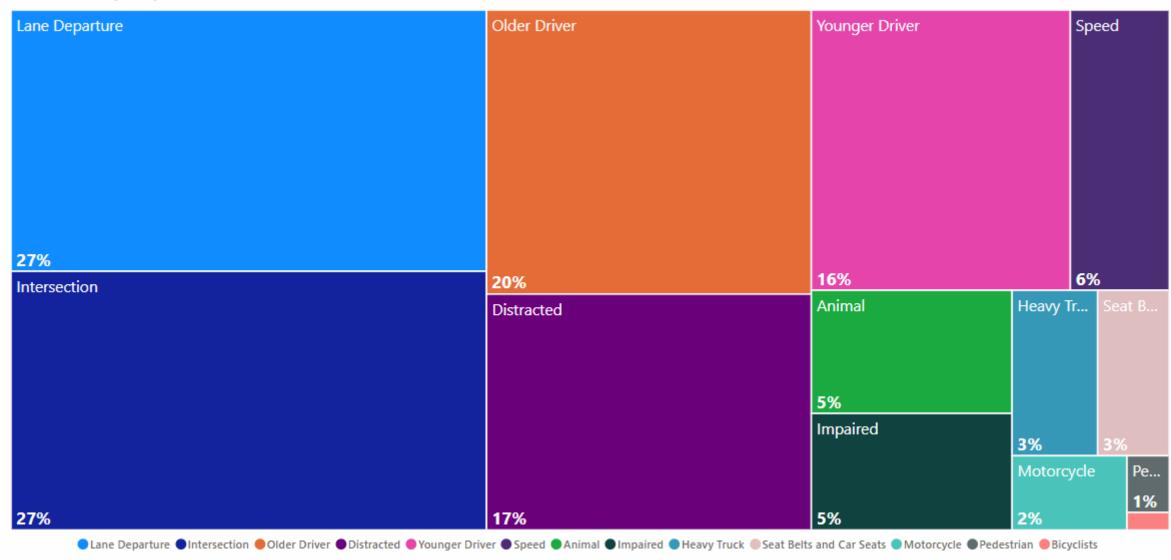


PEDESTRIANS, BICYCLISTS, AND PERSONAL MOBILITY

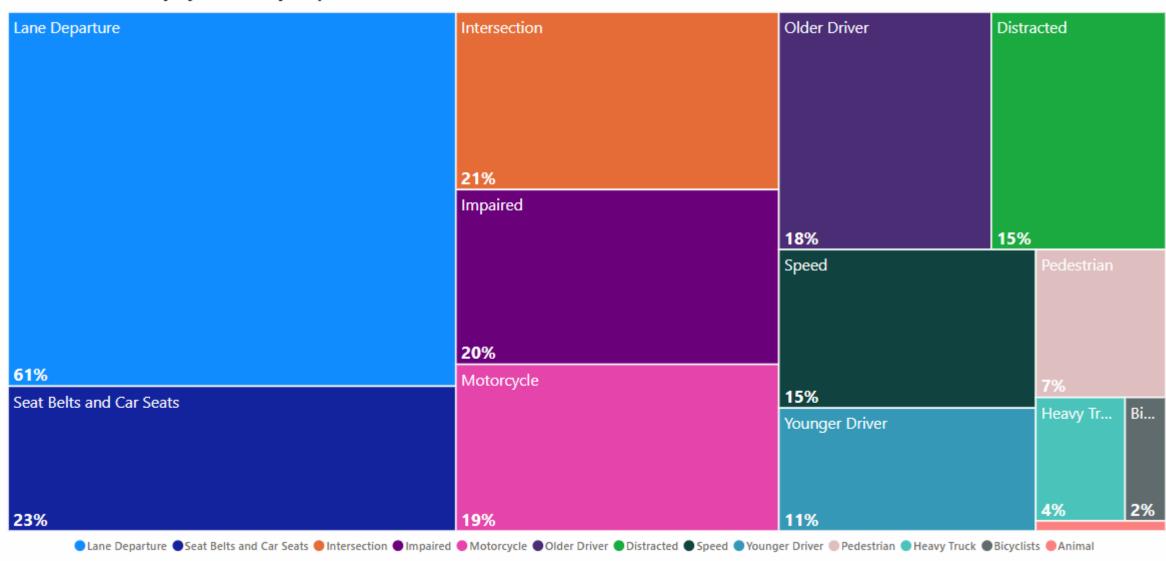


SUBSTANCE IMPAIRED DRIVING

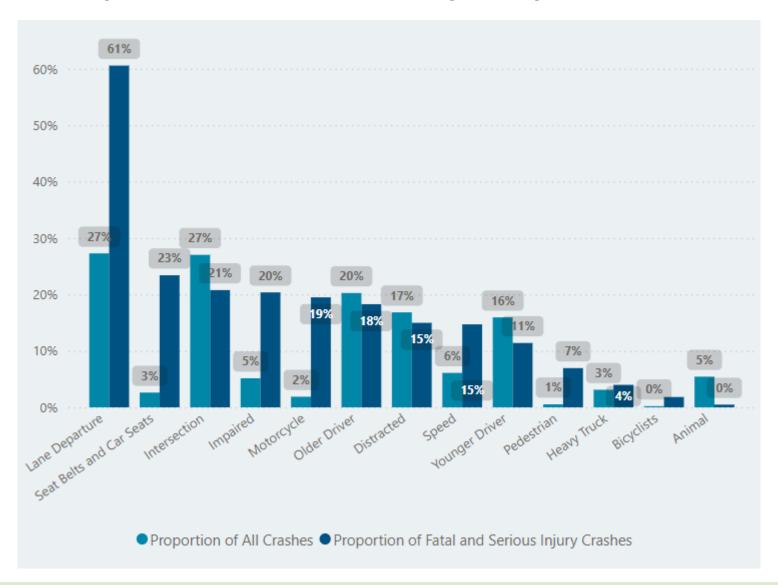
All Crashes by Emphasis Area



Fatal and Serious Injury Crashes by Emphasis Area

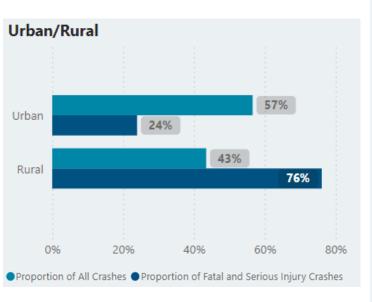


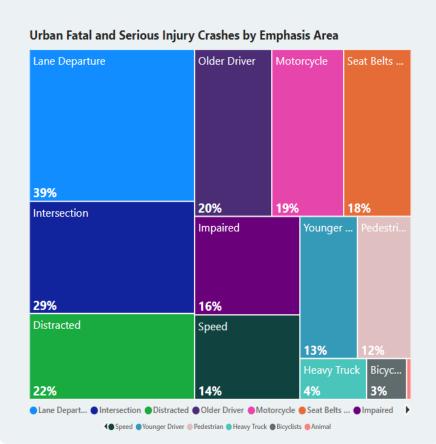
Proportion of Crashes by Emphasis Area

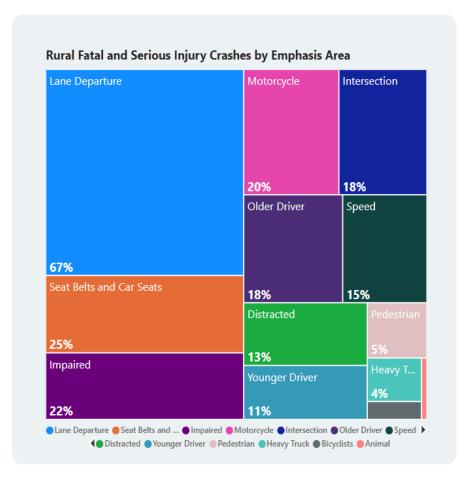


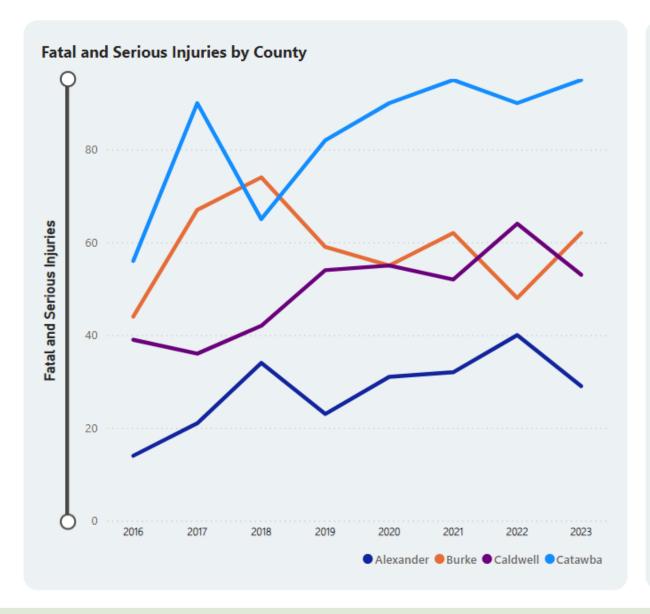
Emphasis Area Comparison Table

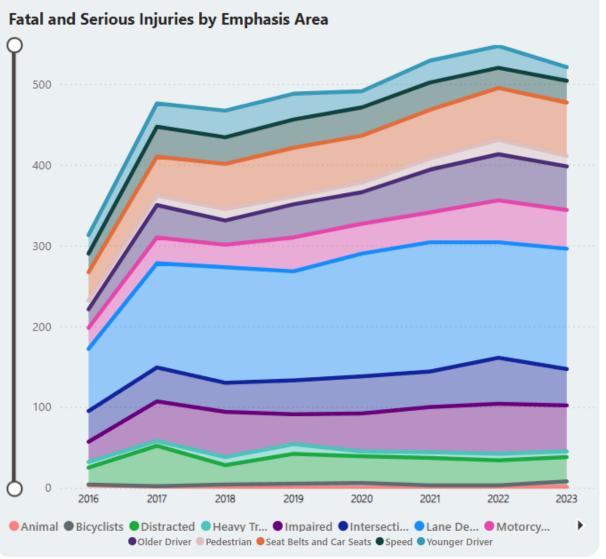
Emphasis Areas	Alexander	Burke	Caldwell	Catawba	Statewide
Animal	1%	0%	0%	1%	1%
Bicyclists		2%	2%	2%	2%
Distracted	14%	20%	14%	12%	12%
Heavy Truck	1%	5%	3%	5%	5%
Impaired	21%	21%	18%	21%	23%
Intersection	21%	16%	20%	24%	22%
Lane Departure	69%	65%	62%	54%	53%
Motorcycle	18%	23%	15%	20%	14%
Older Driver	17%	15%	22%	19%	17%
Pedestrian	4%	7%	6%	8%	10%
Seat Belts and Car Seats	25%	25%	24%	22%	27%
Speed	17%	16%	19%	11%	18%
Younger Driver	15%	11%	11%	11%	11%



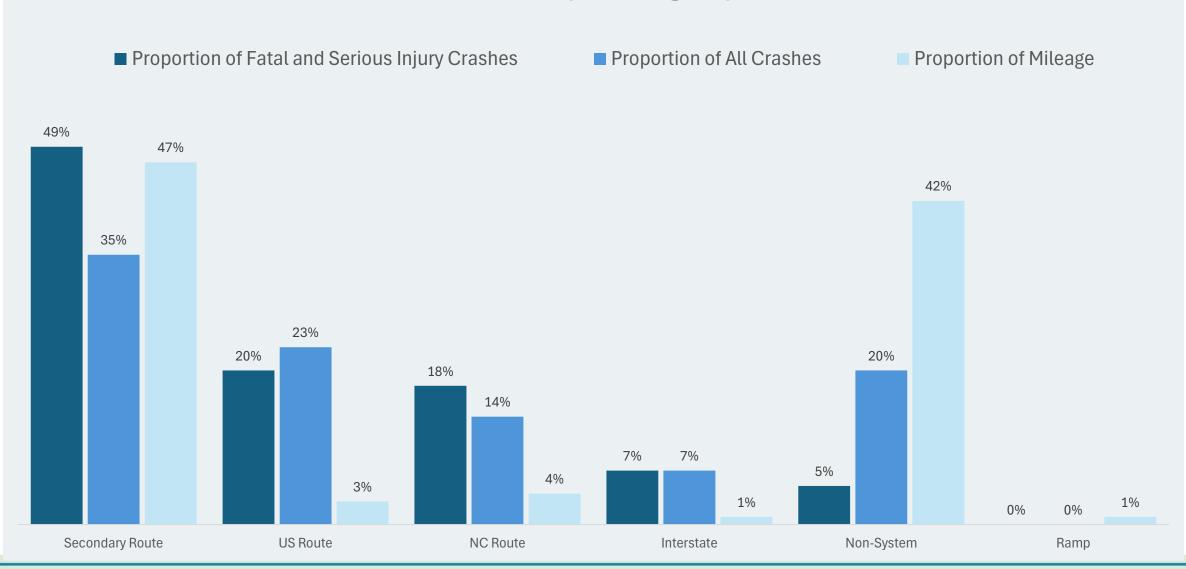




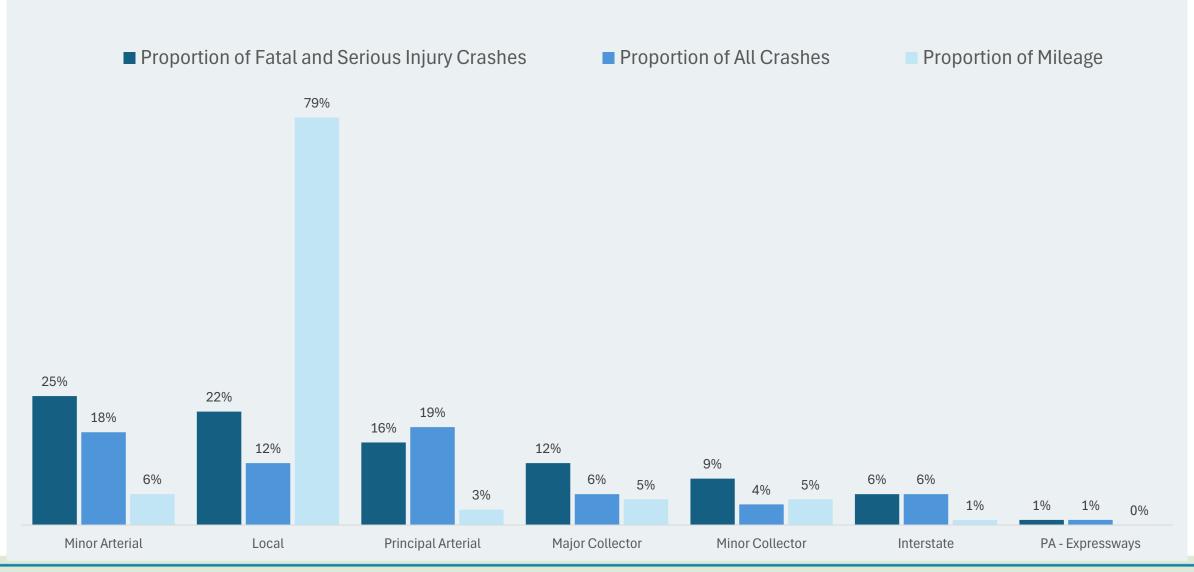




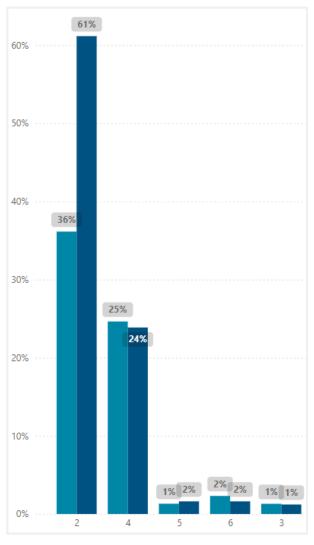
Crashes and Roadway Mileage by Route Class



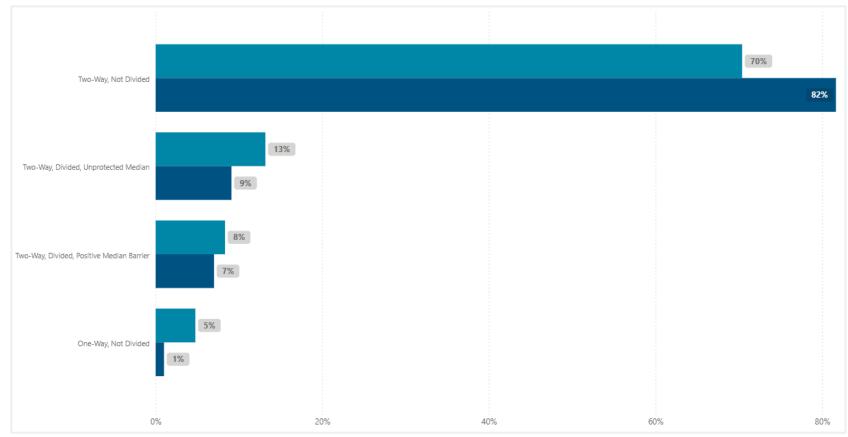
Crashes and Roadway Mileage by Functional Class

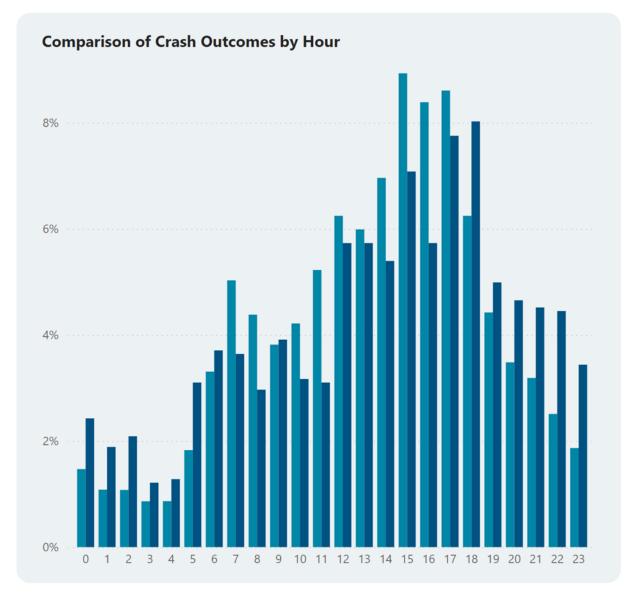


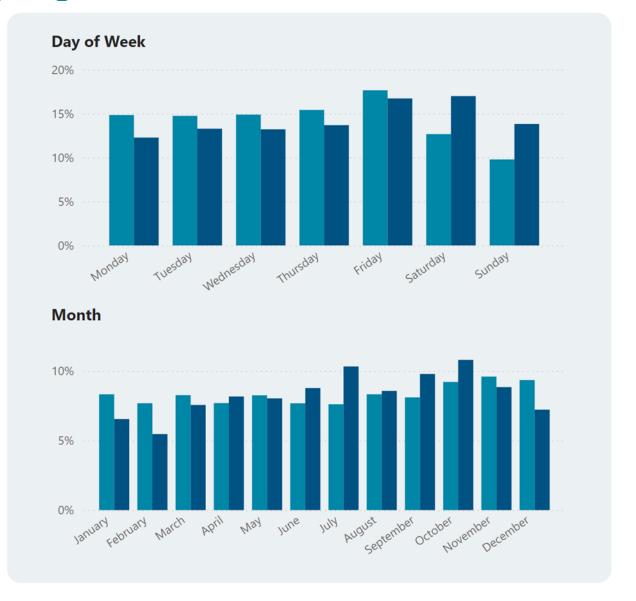
Number of Lanes

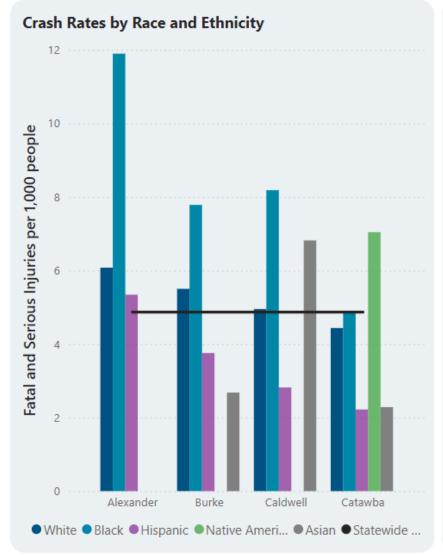


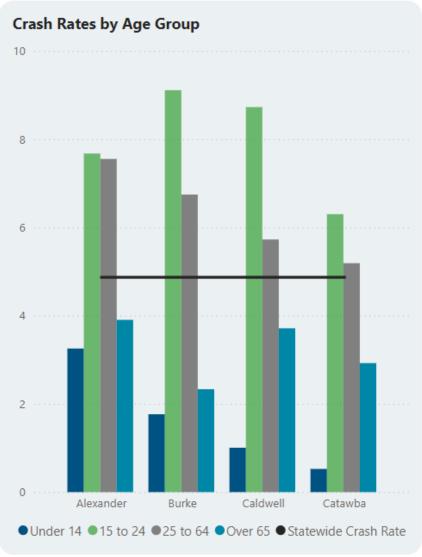
Roadway Configuration

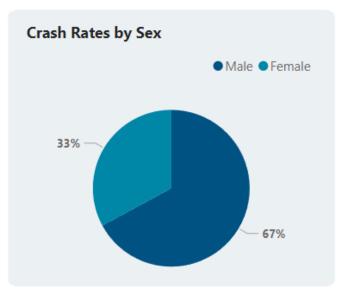


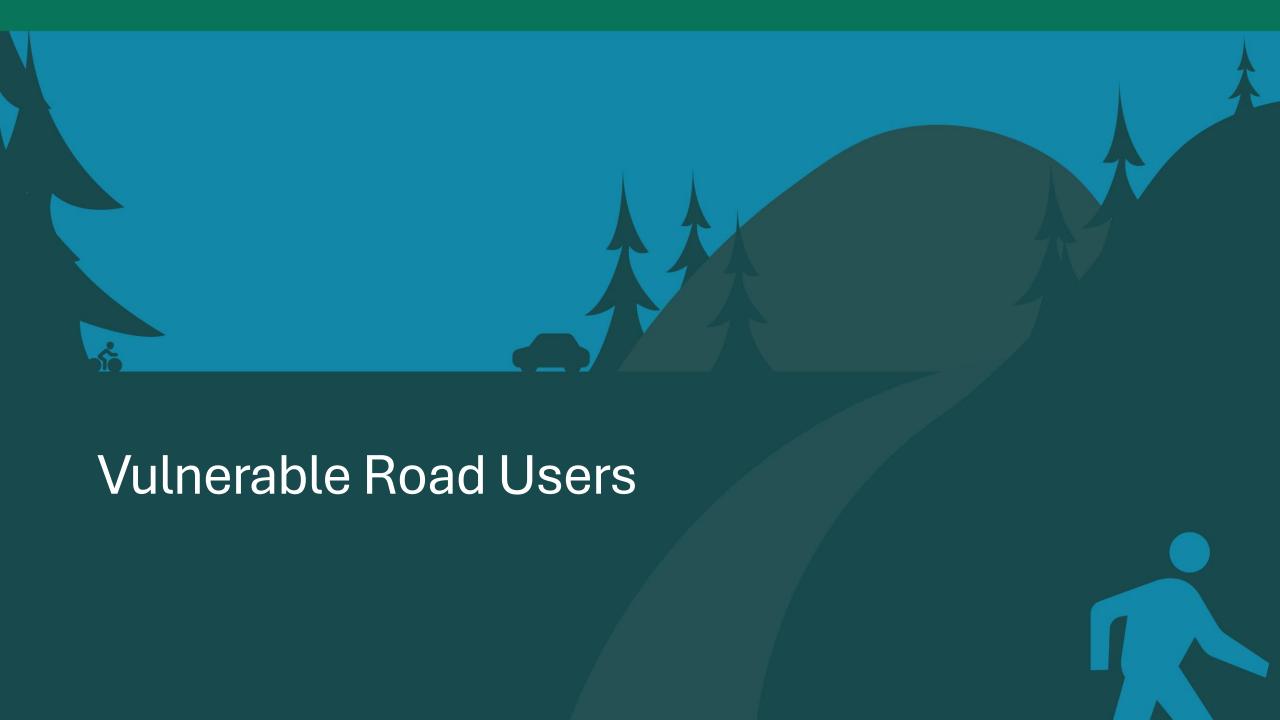








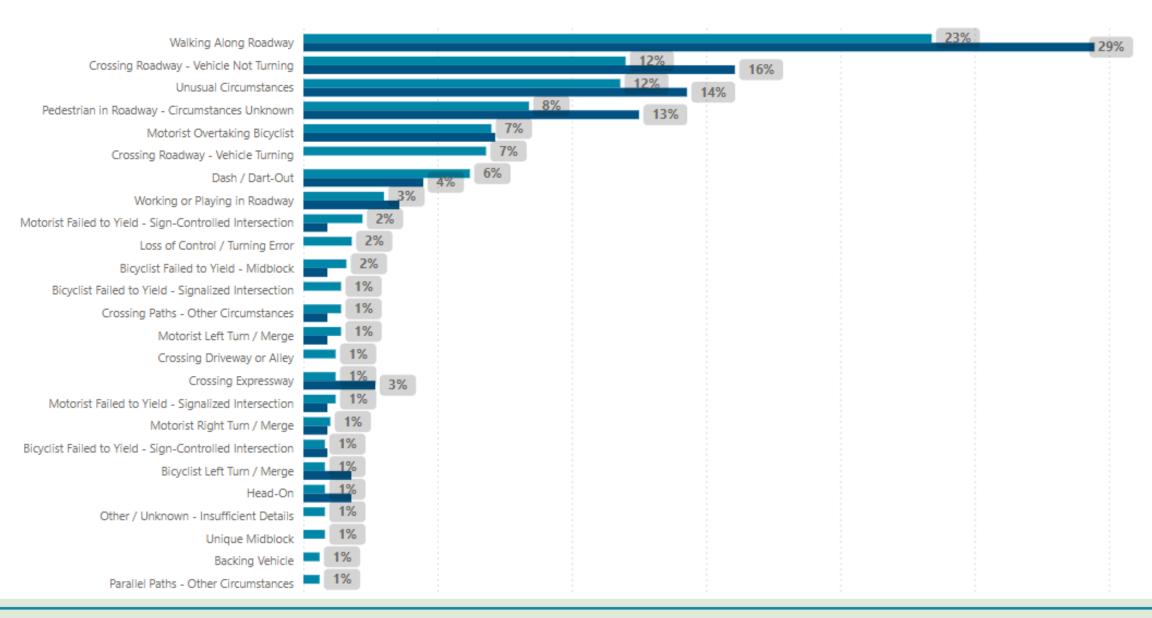


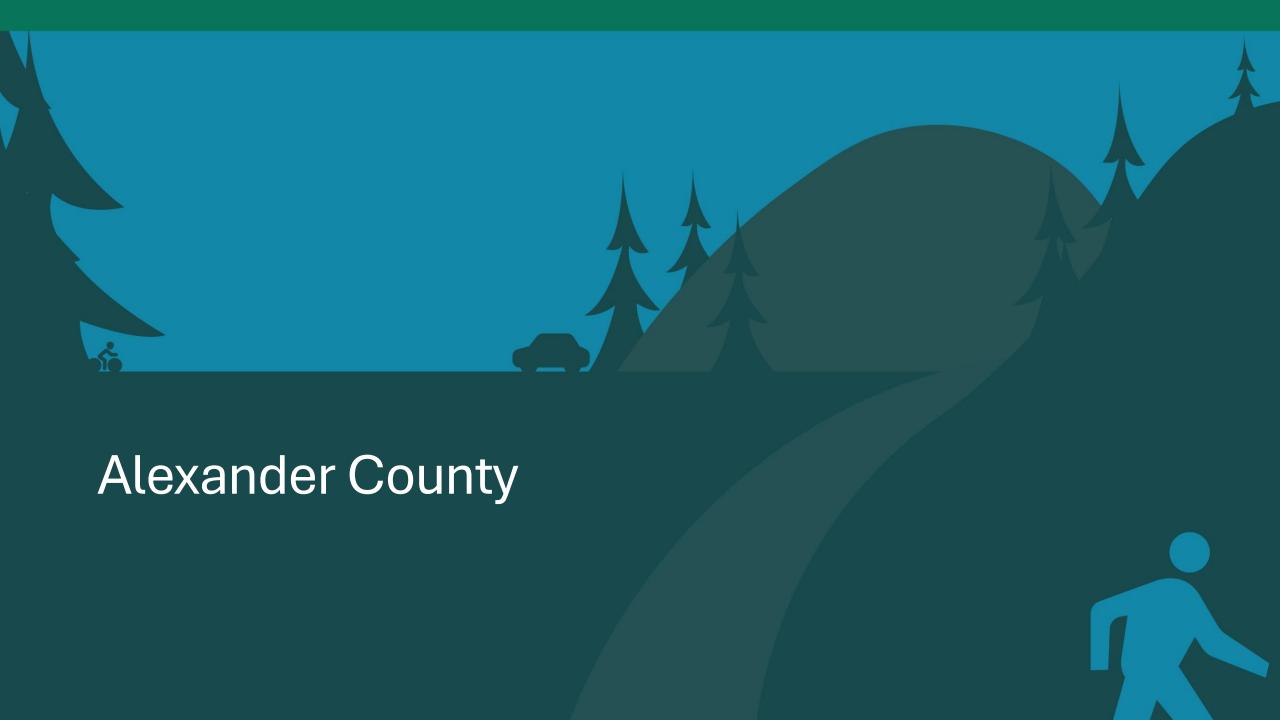


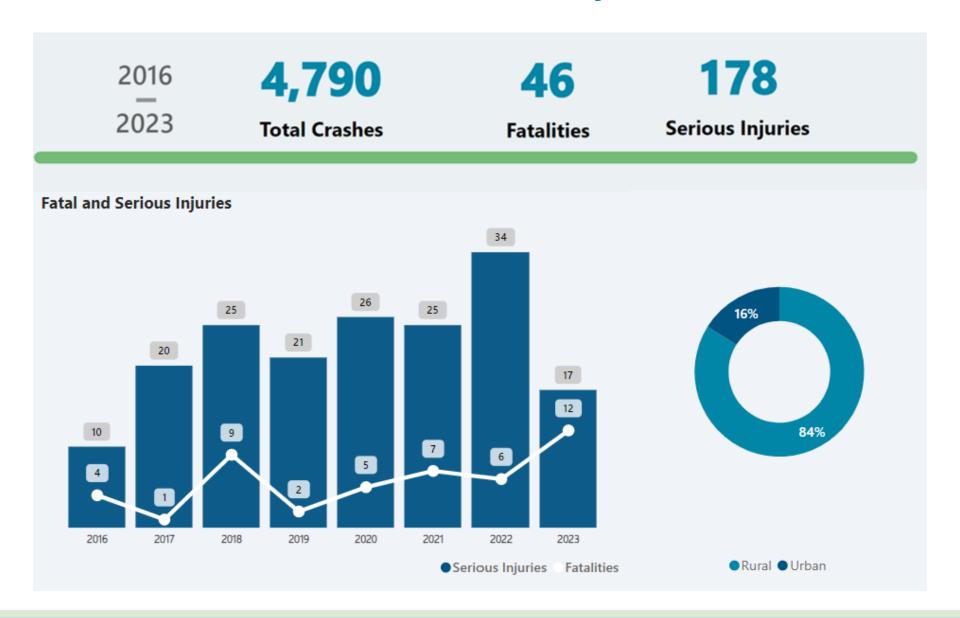
Vulnerable Road Users

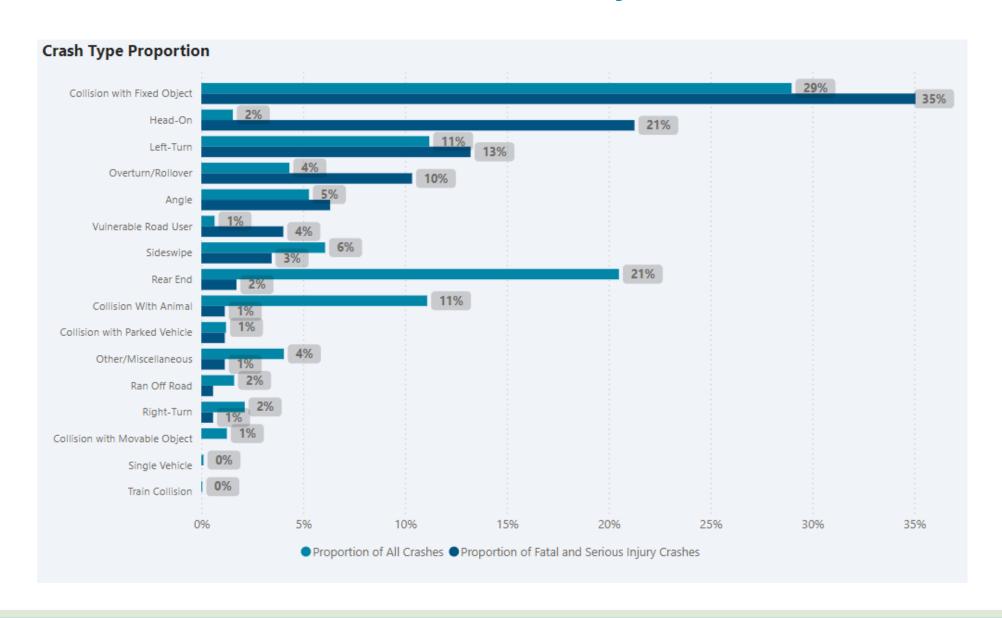


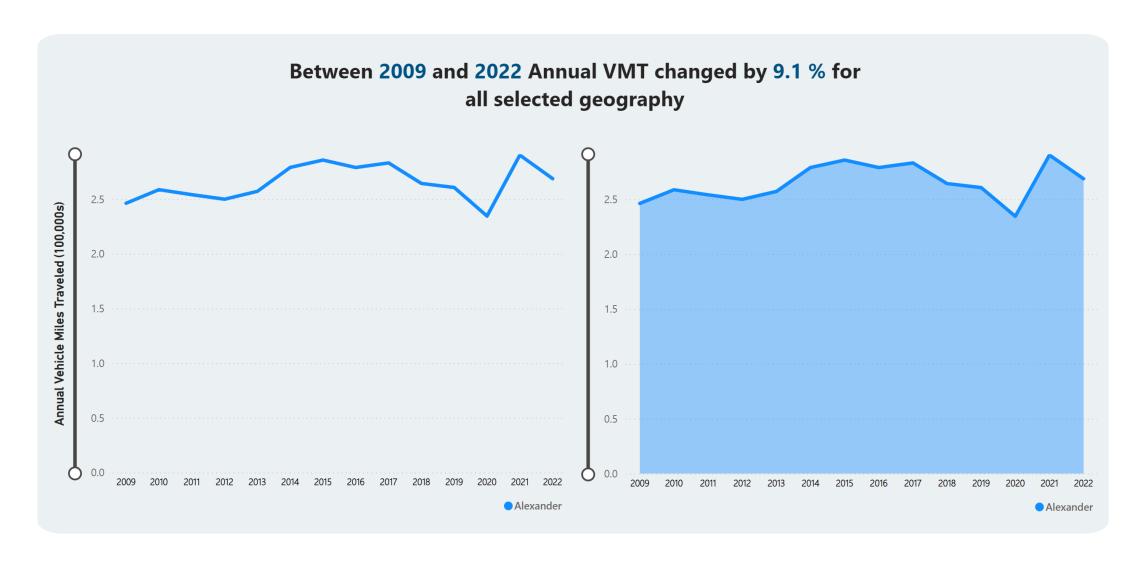
Vulnerable Road Users

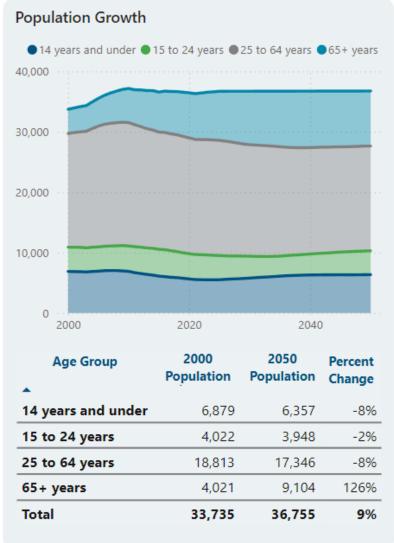


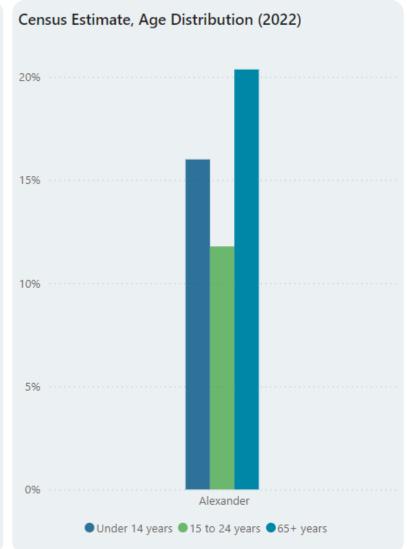


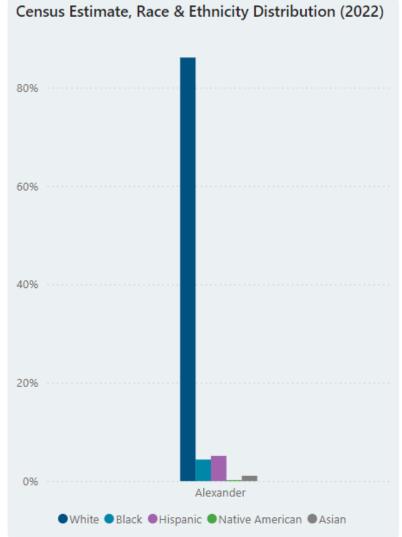






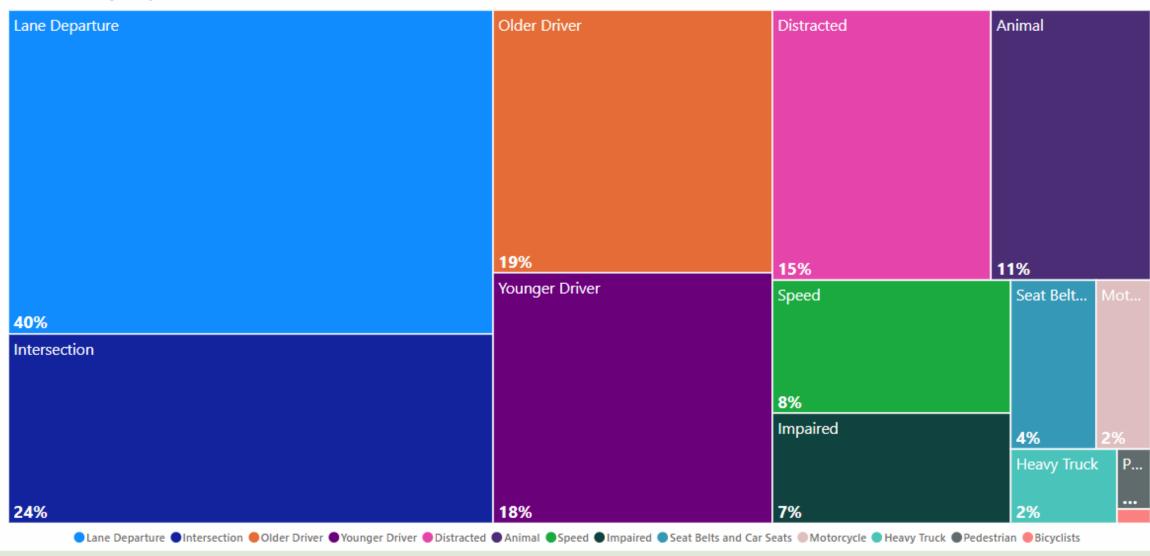






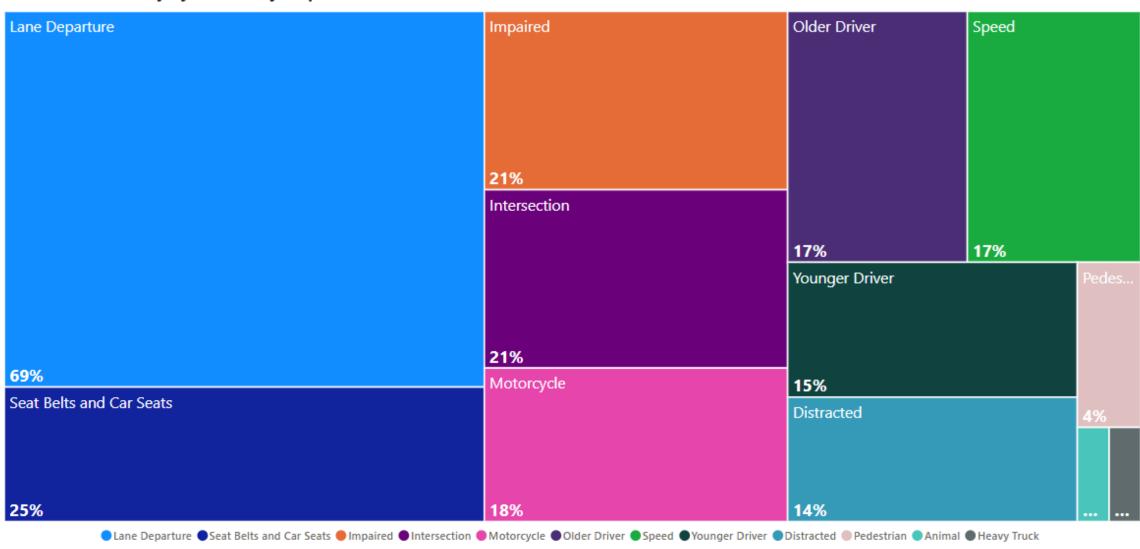
Alexander Crashes by Emphasis Area

All Crashes by Emphasis Area

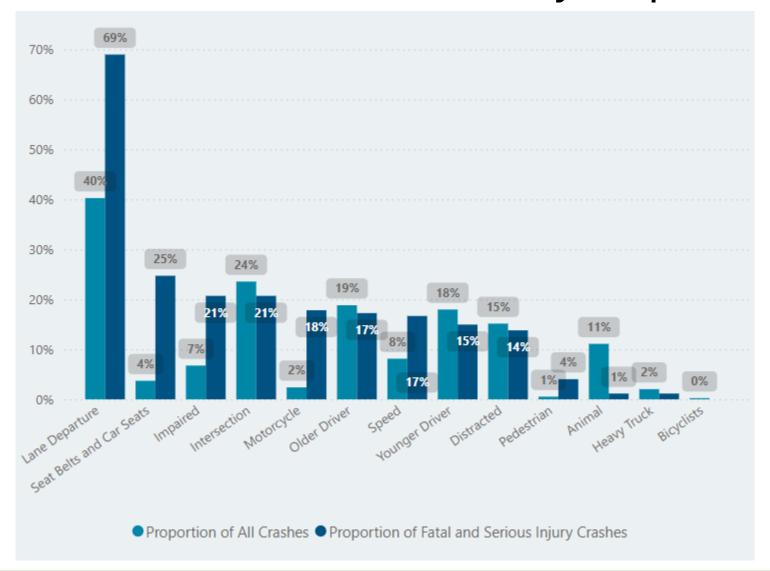


Alexander Fatal and Serious Crashes by Emphasis Area

Fatal and Serious Injury Crashes by Emphasis Area



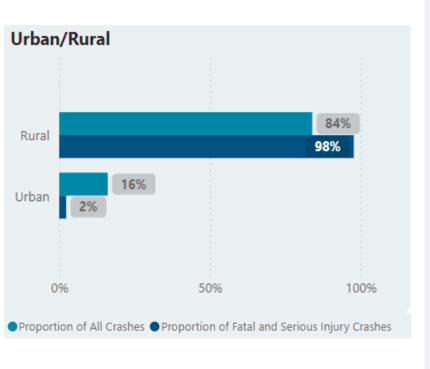
Proportion of Alexander Crashes by Emphasis Area

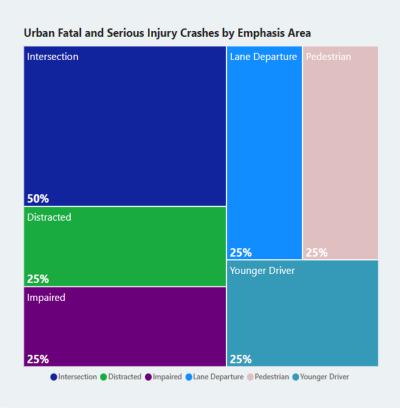


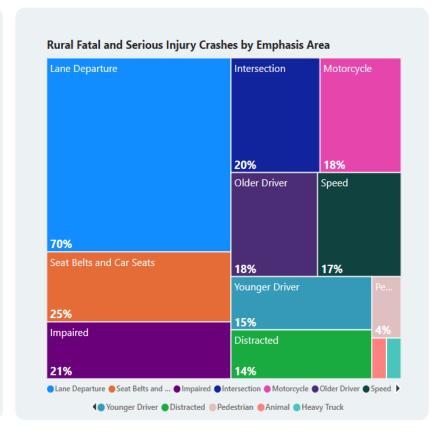
Alexander Emphasis Area Comparison Table

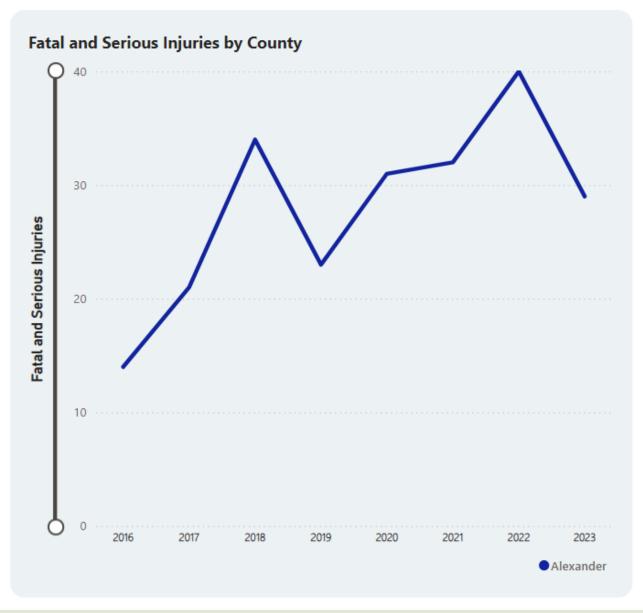
Emphasis Areas	Alexander	Burke	Caldwell	Catawba	Statewide
Animal	1%	0%	0%	1%	1%
Bicyclists		2%	2%	2%	2%
Distracted	14%	20%	14%	12%	12%
Heavy Truck	1%	5%	3%	5%	5%
Impaired	21%	21%	18%	21%	23%
Intersection	21%	16%	20%	24%	22%
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Motorcycle	18%	23%	15%	20%	14%
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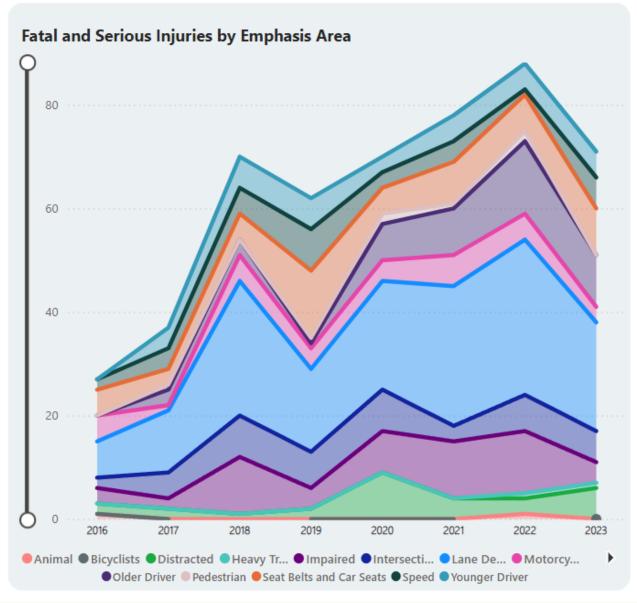
Alexander Urban and Rural Crashes

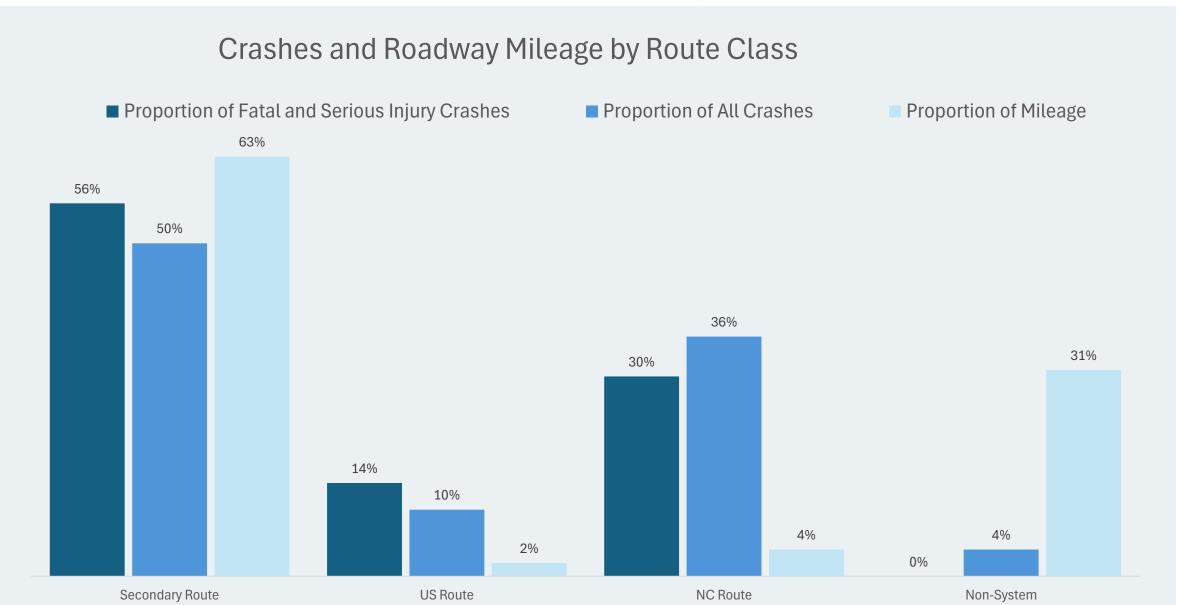






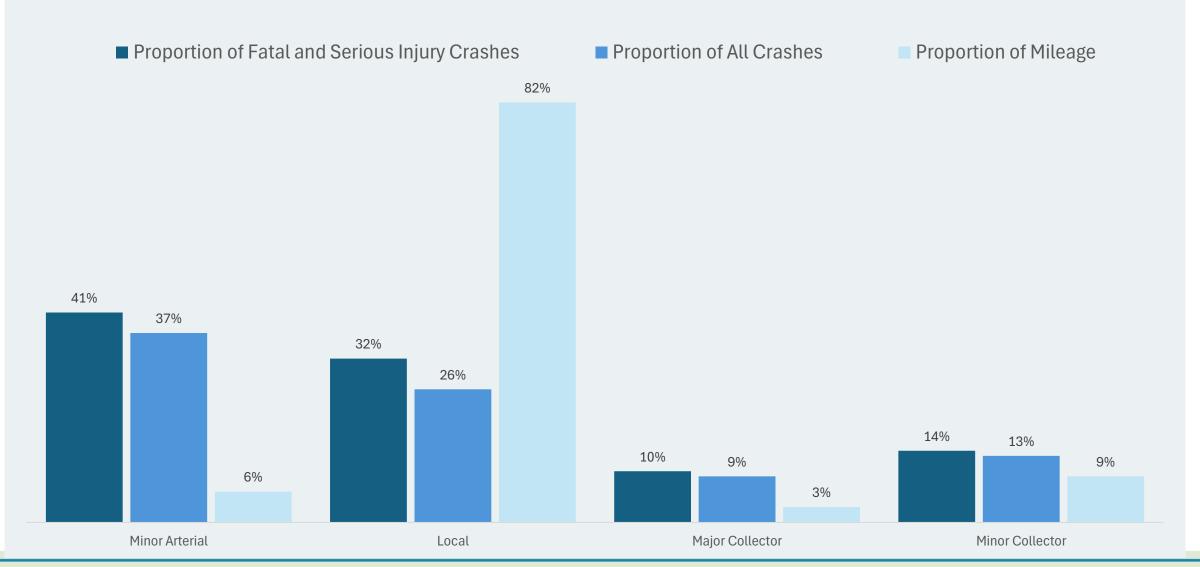




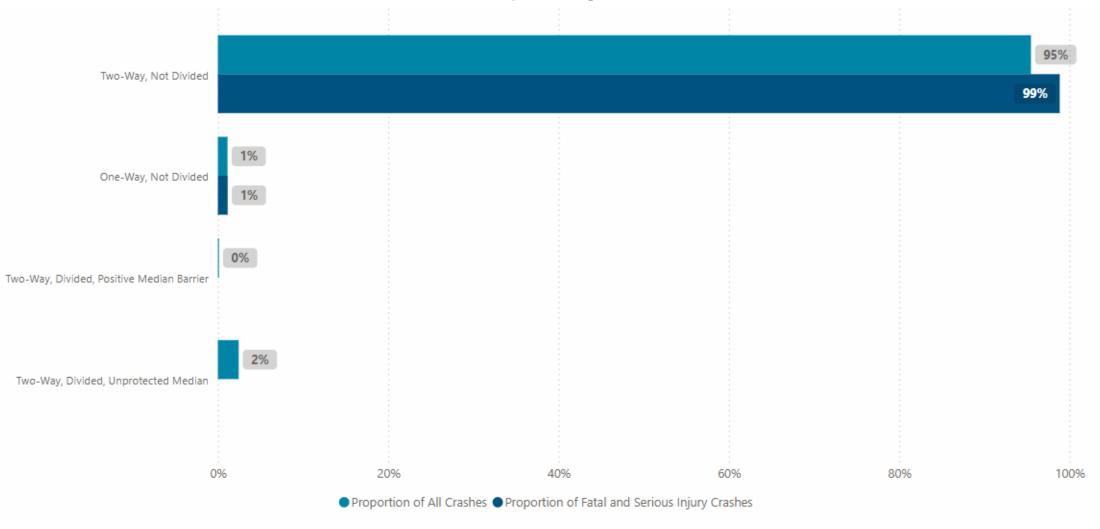


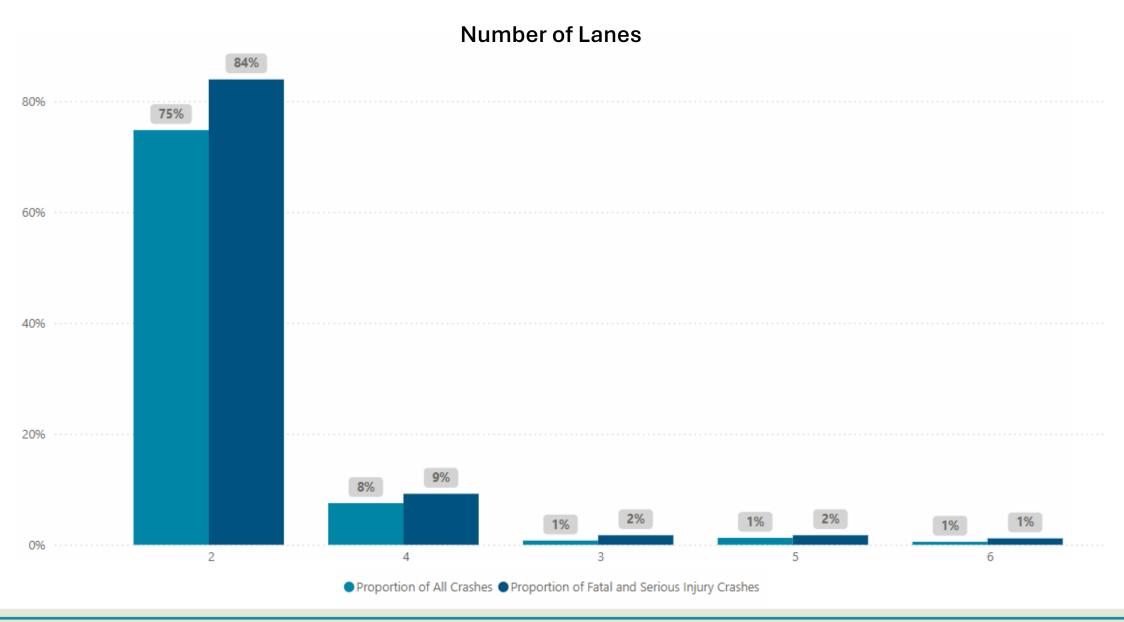
Alexander

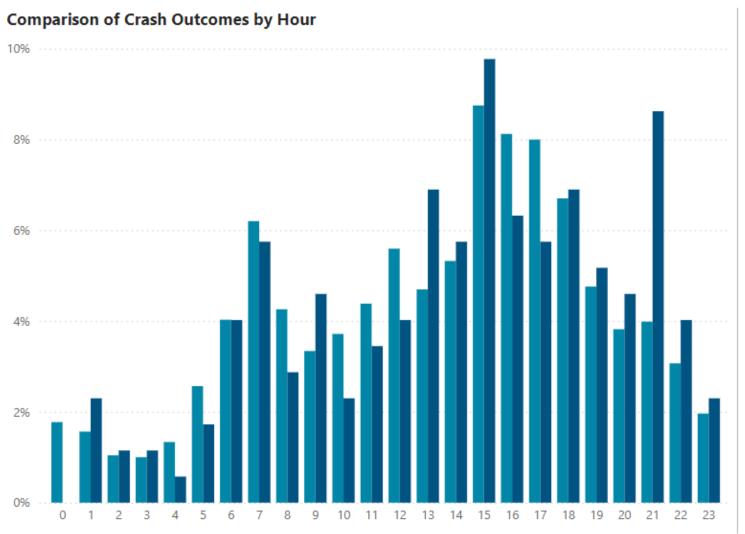


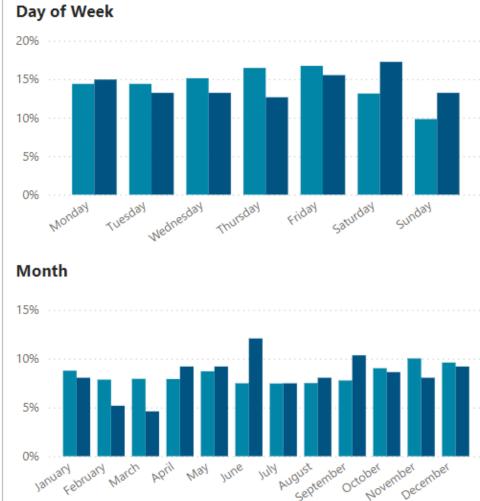


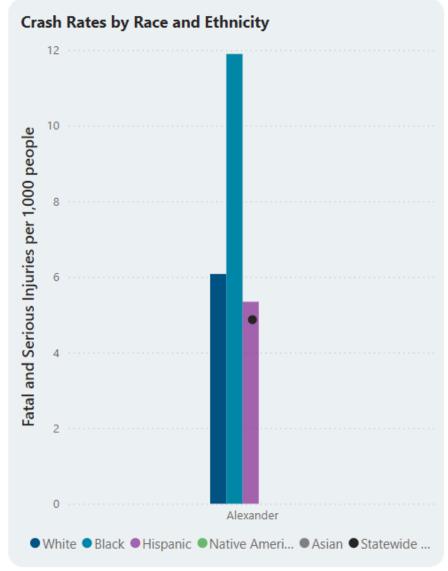
Roadway Configuration

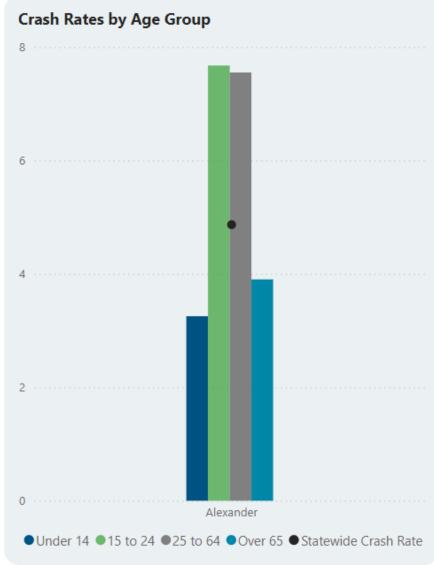


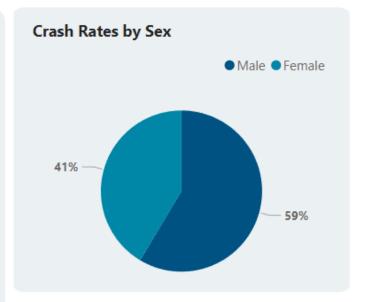




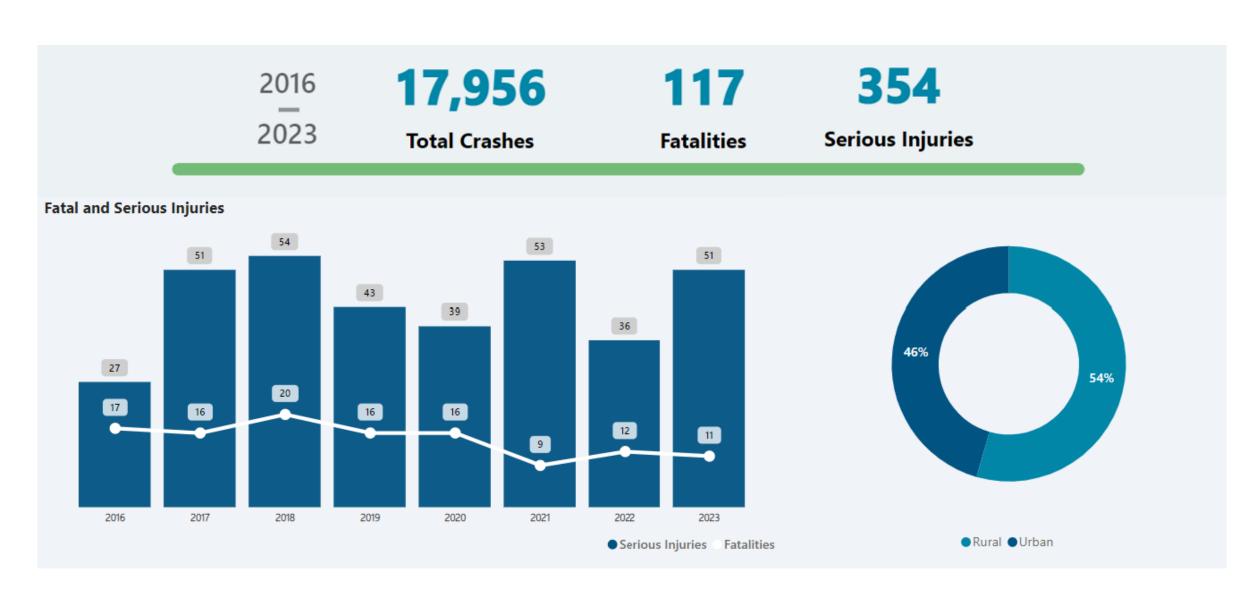


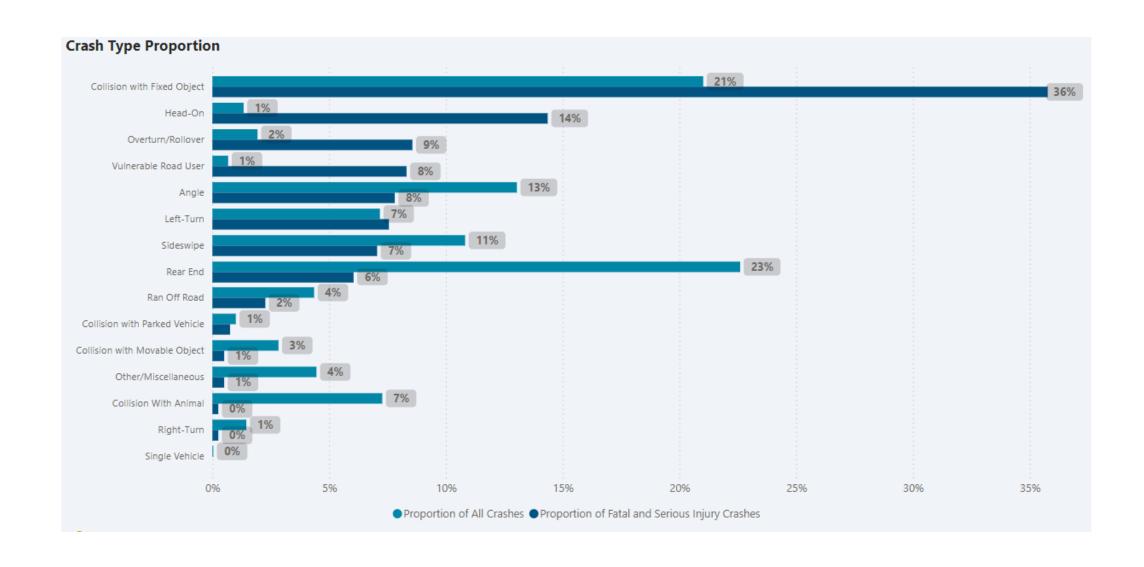


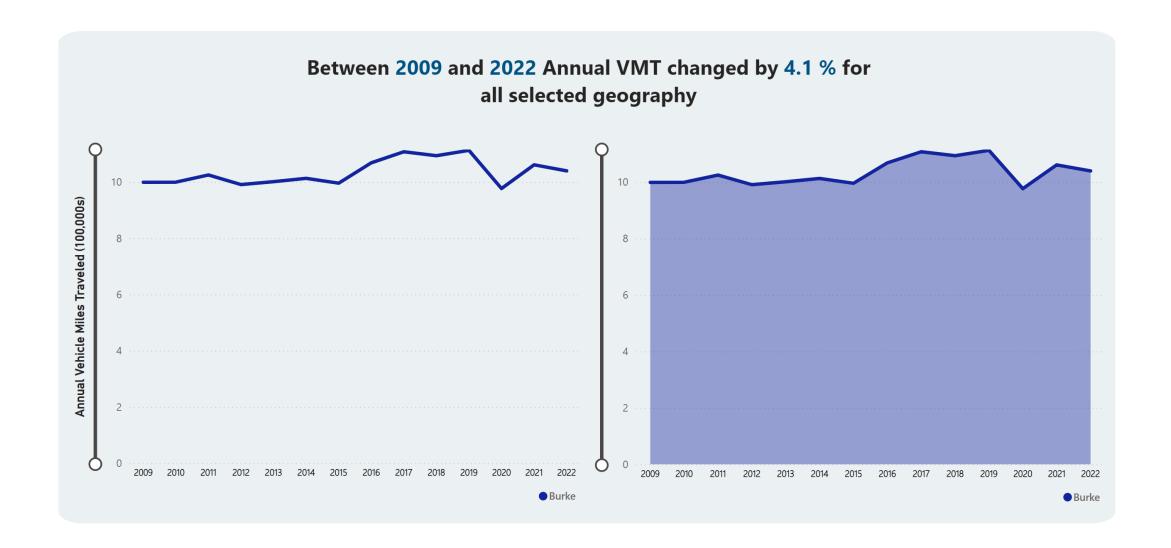


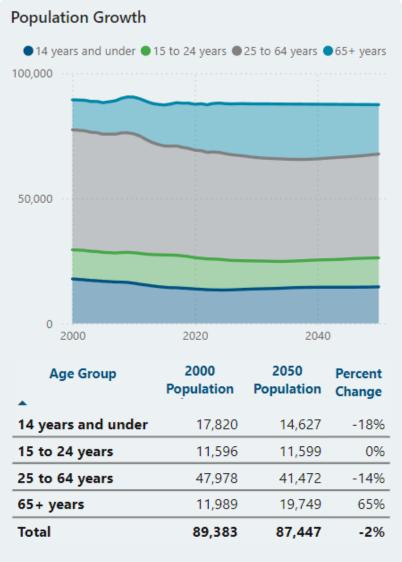


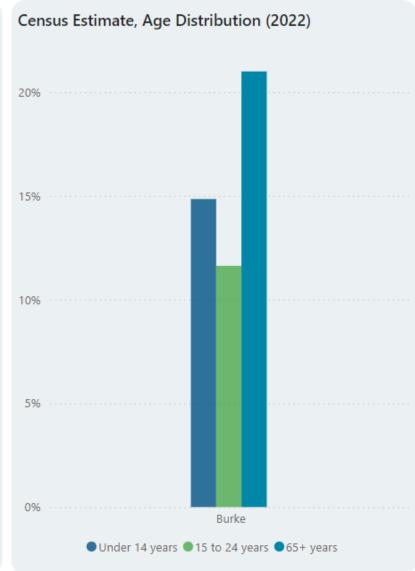


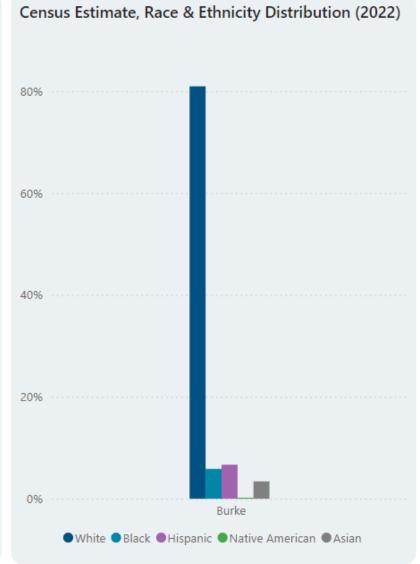






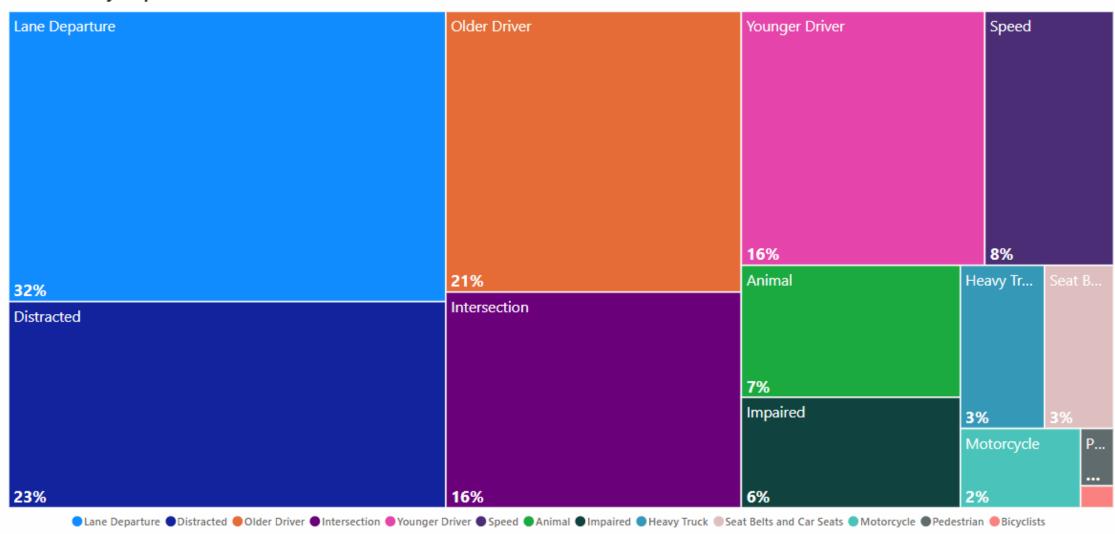






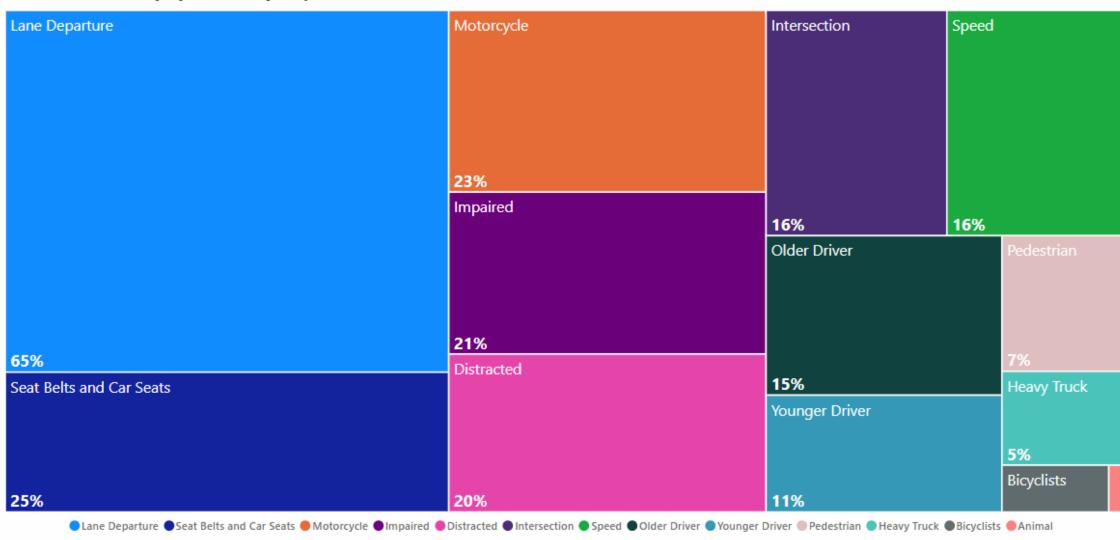
Burke Crashes by Emphasis Area

All Crashes by Emphasis Area

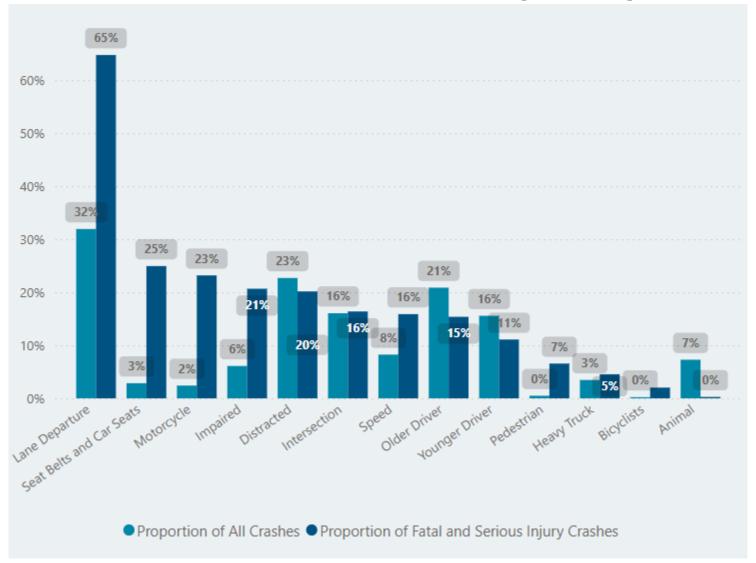


Burke Fatal and Serious Crashes by Emphasis Area

Fatal and Serious Injury Crashes by Emphasis Area



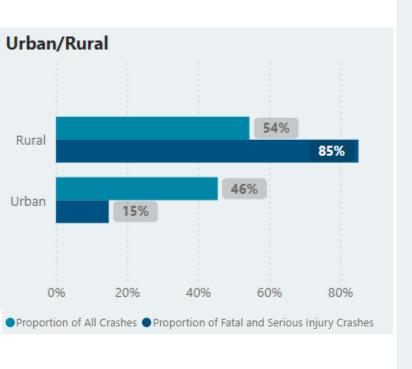
Proportion of Burke Crashes by Emphasis Area

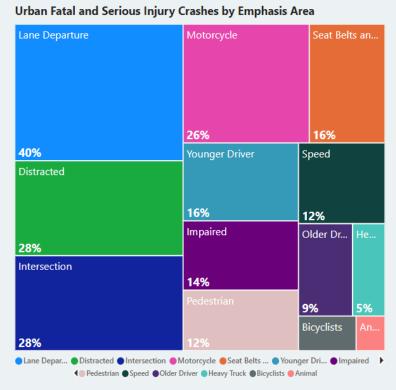


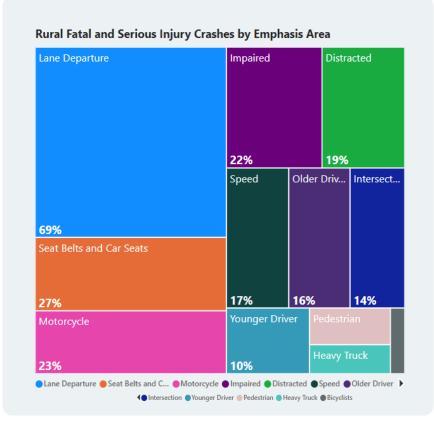
Burke Emphasis Area Comparison Table

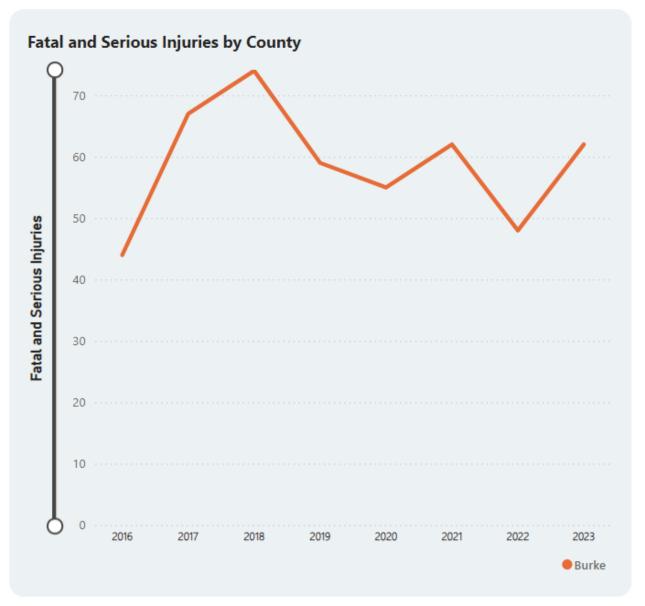
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Lane Departure	69%	65%	62%	54%	53%
Motorcycle	18%	23%	15%	20%	14%
Older Driver	17%	15%	22%	19%	17%
Pedestrian	4%	7%	6%	8%	10%
Seat Belts and Car Seats	25%	25%	24%	22%	27%
Speed	17%	16%	19%	11%	18%
Younger Driver	15%	11%	11%	11%	11%

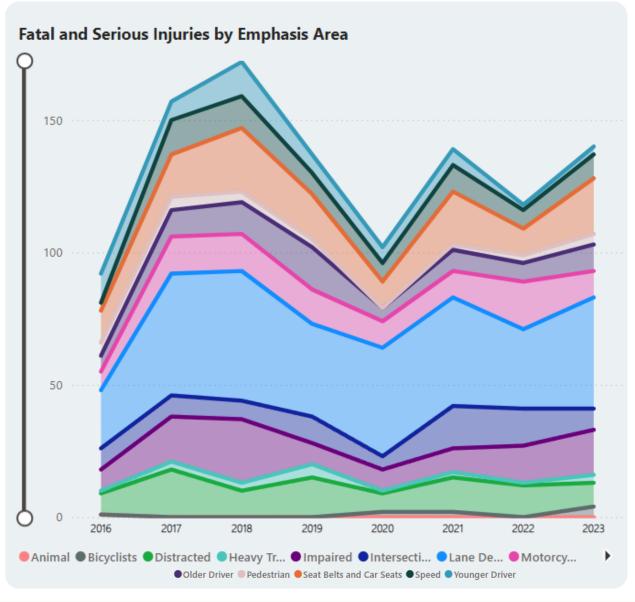
Burke Urban and Rural Crashes

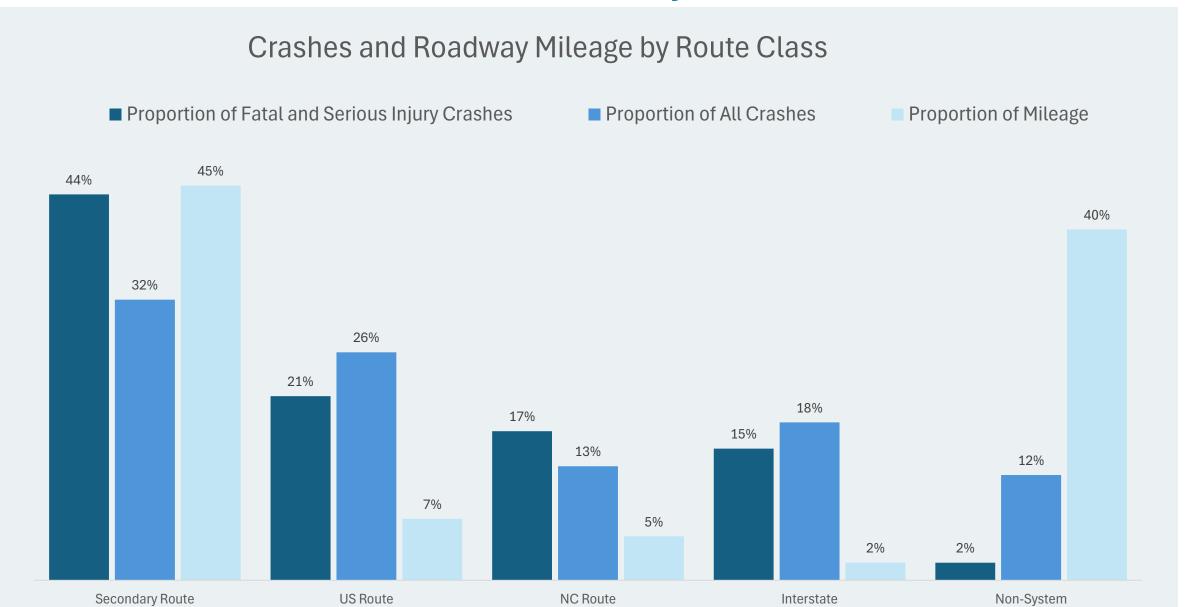




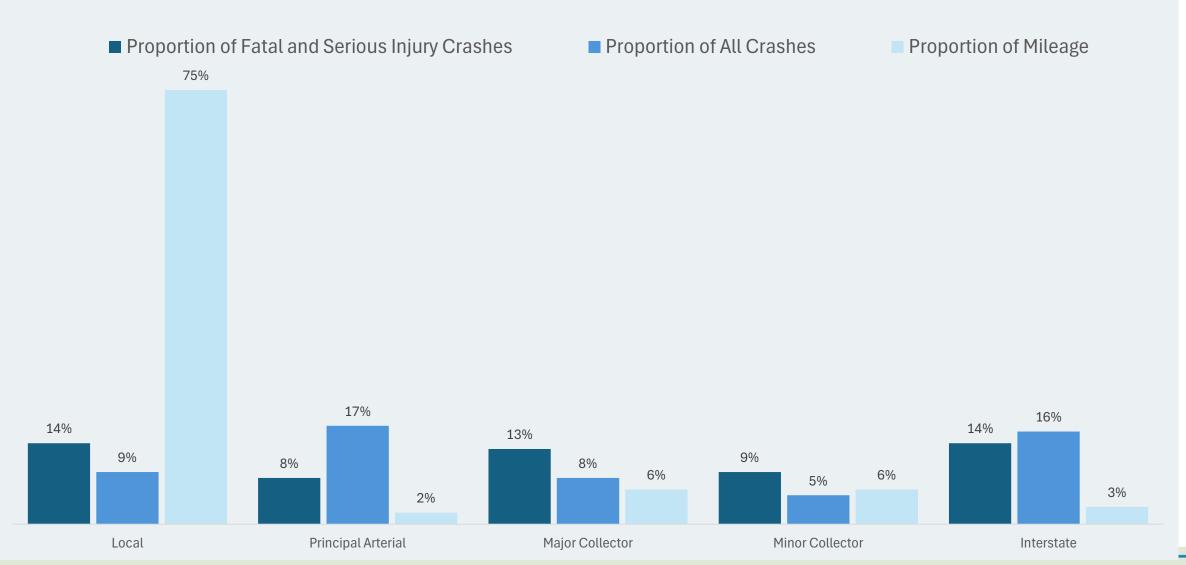




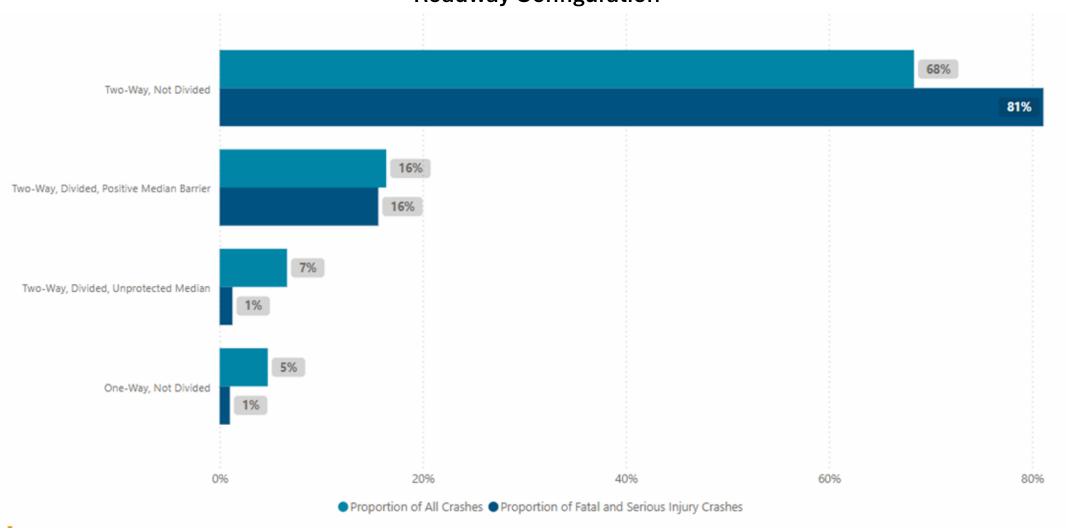


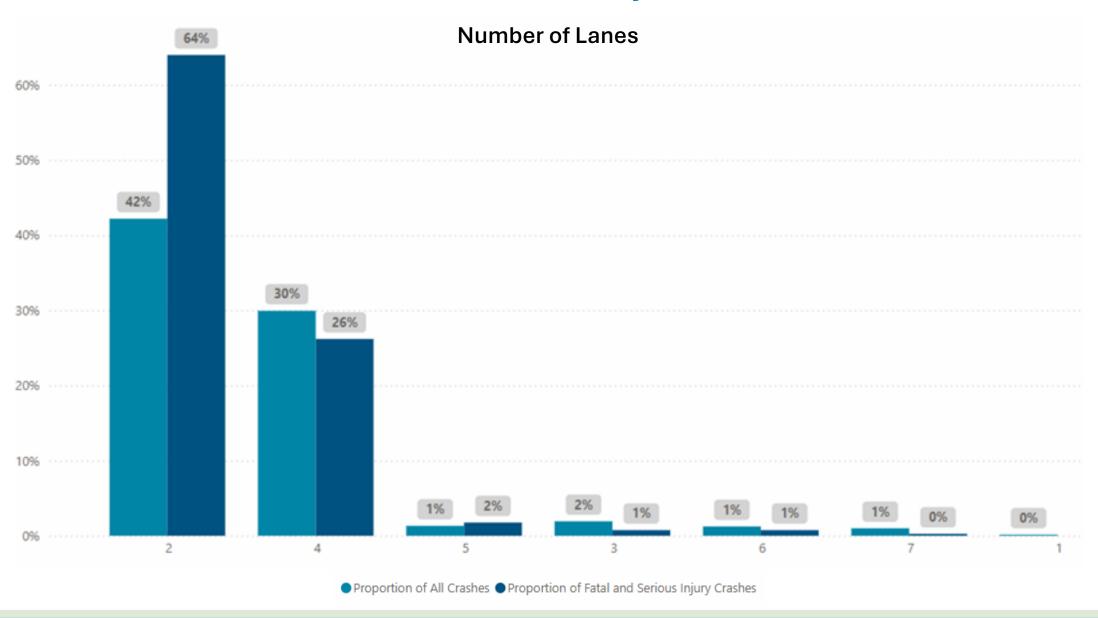


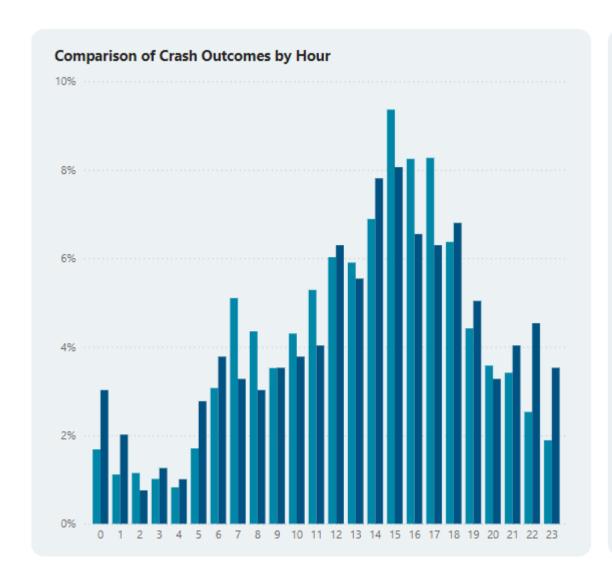
Crashes and Roadway Mileage by Functional Class

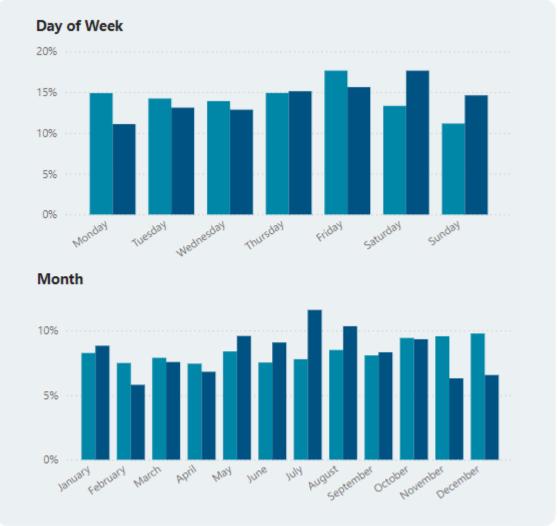


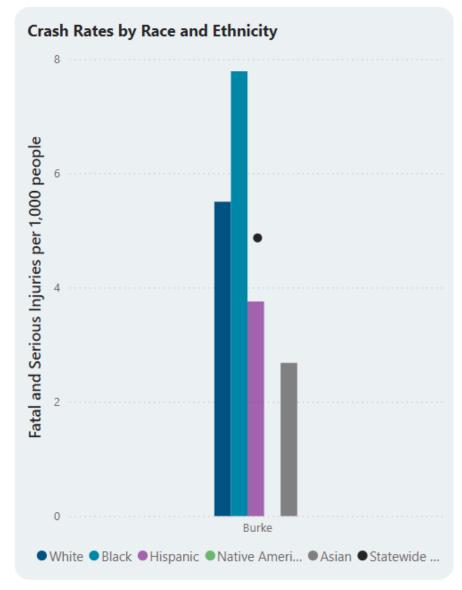


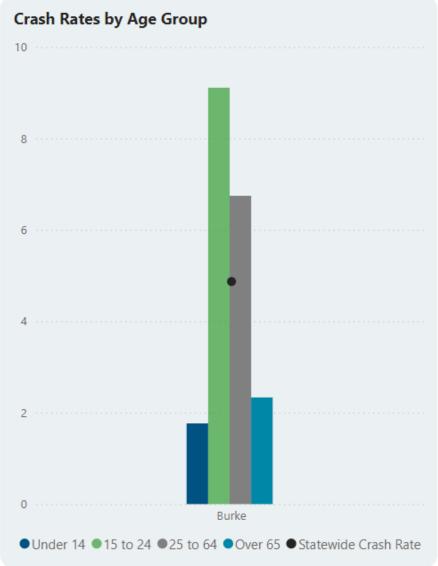


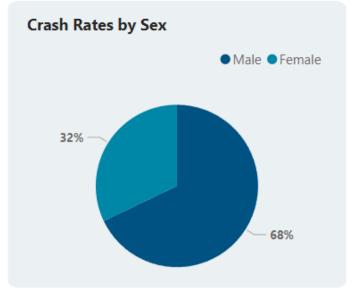


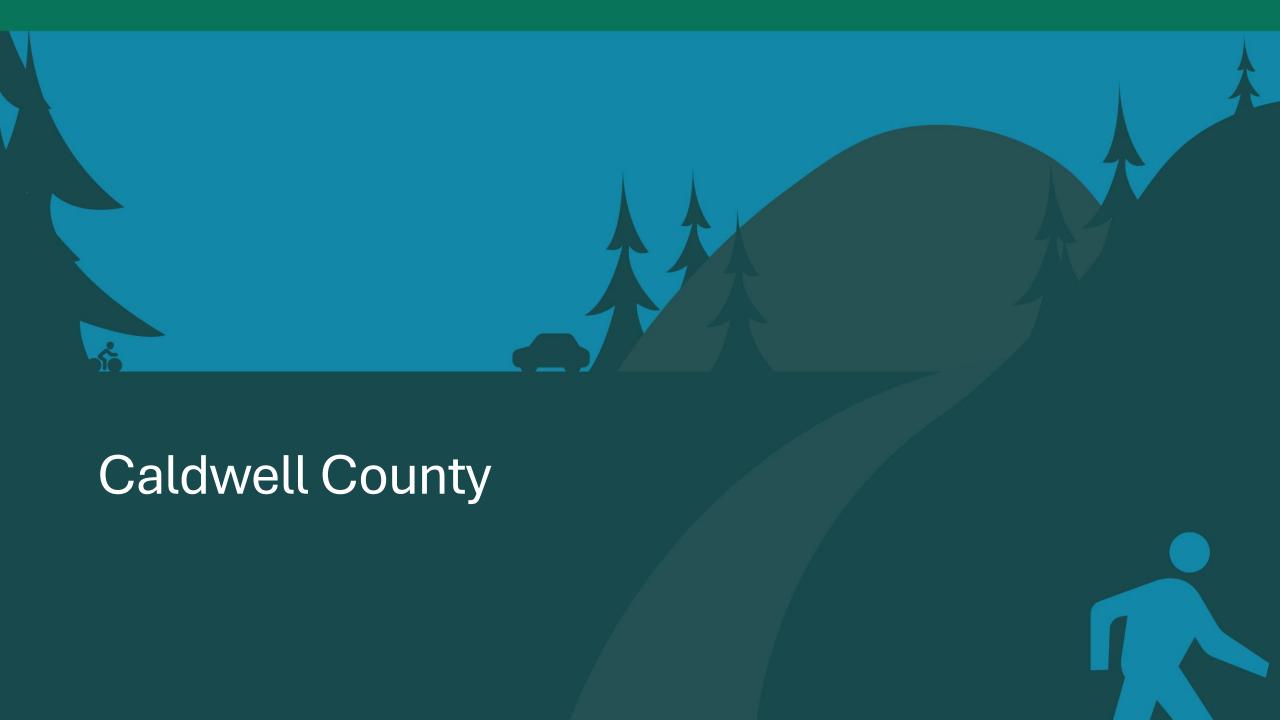


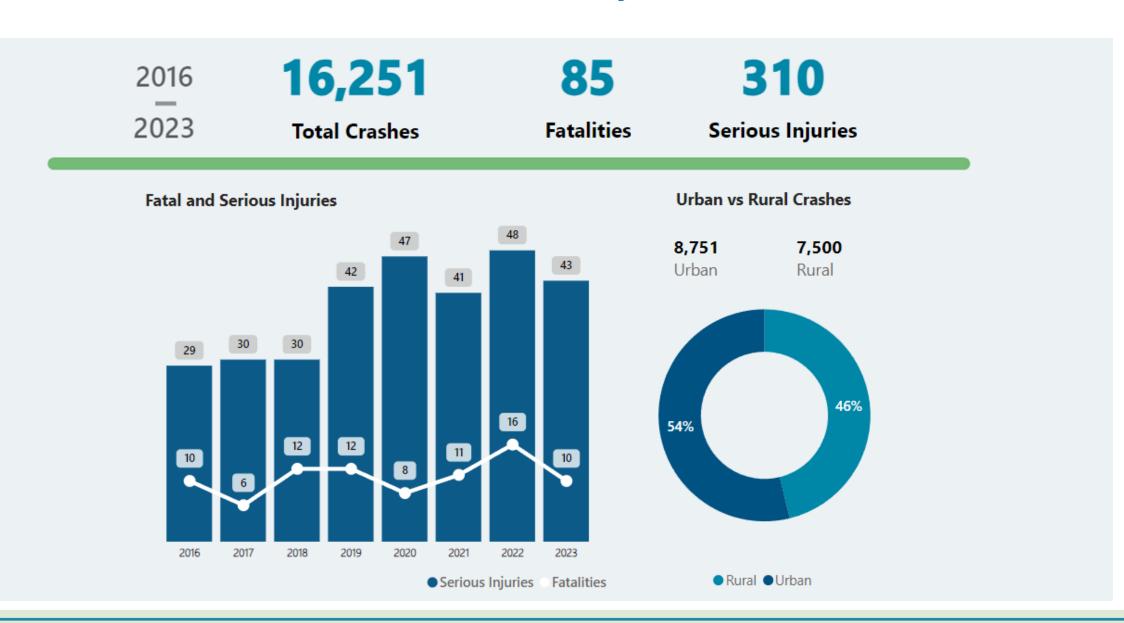


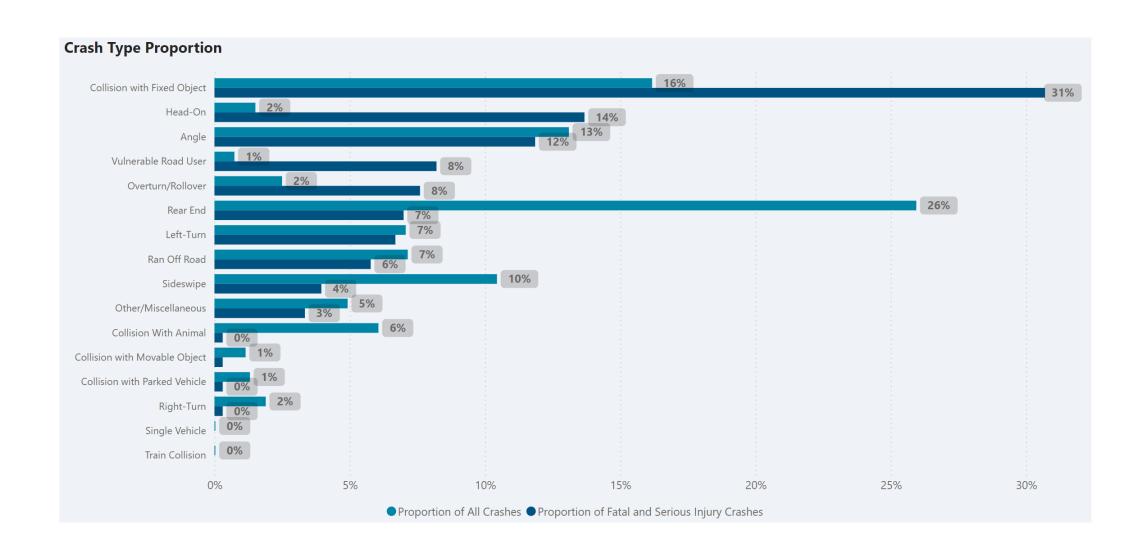




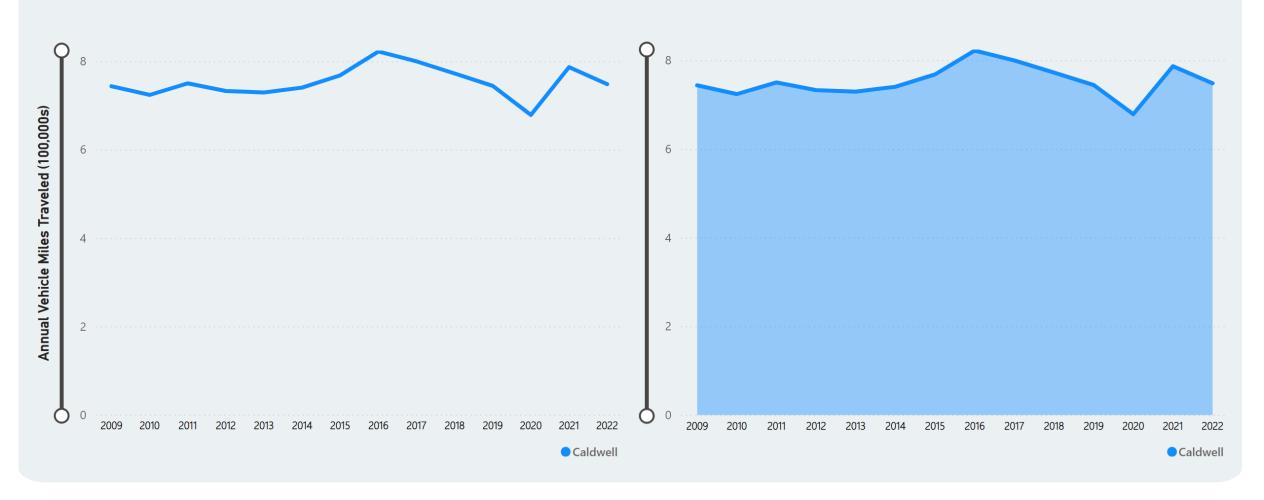


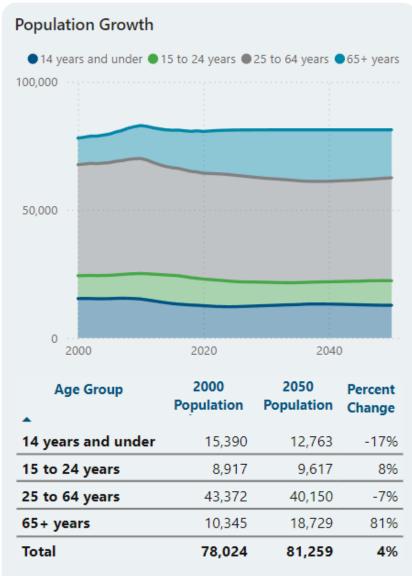


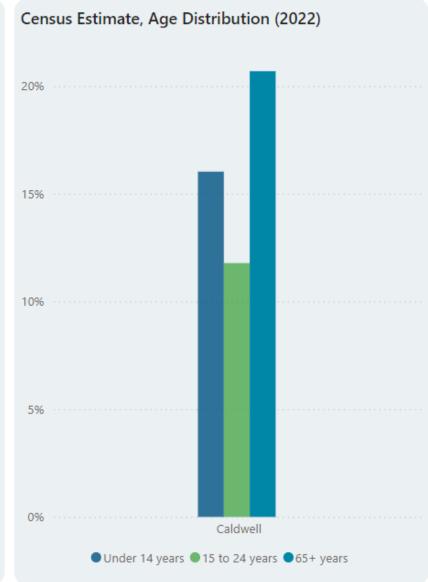


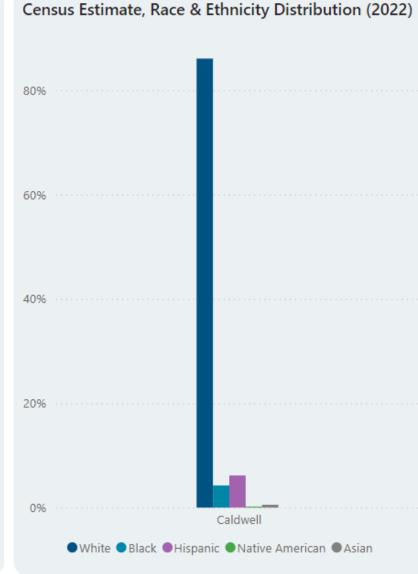


Between 2009 and 2022 Annual VMT changed by 0.6 % for all selected geography



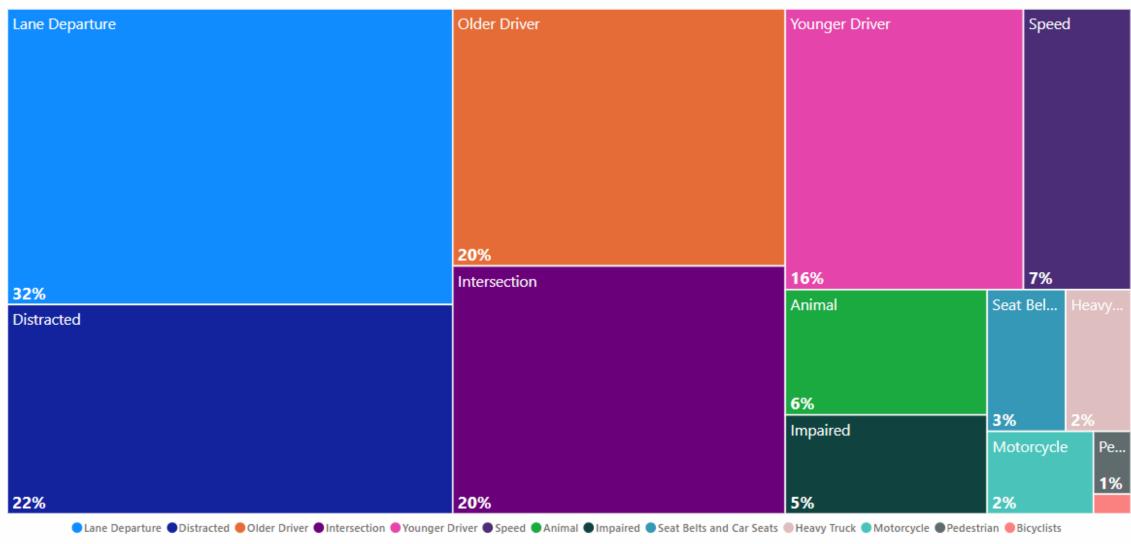






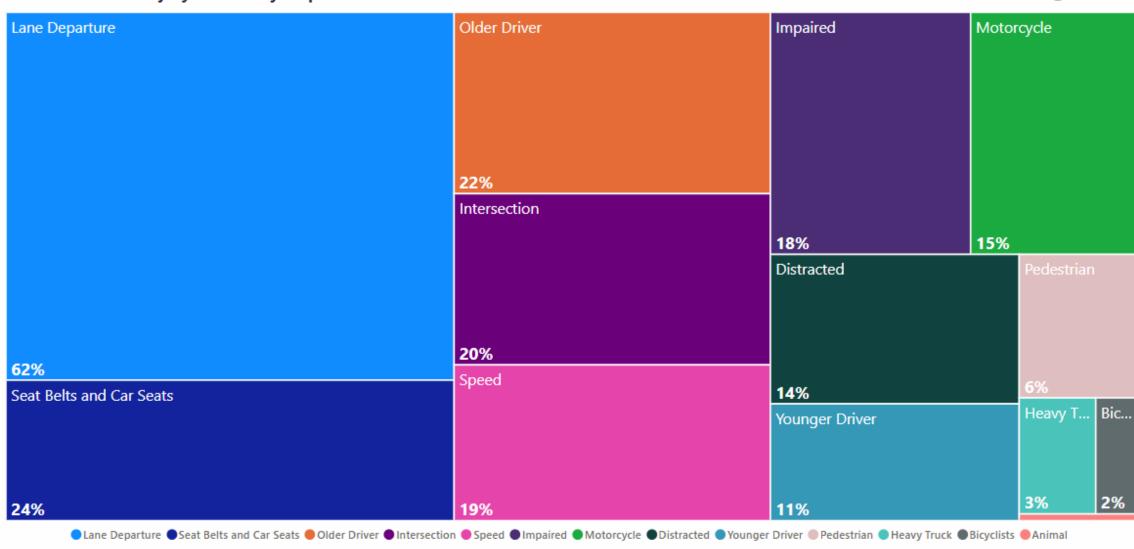
Caldwell Crashes by Emphasis Area

All Crashes by Emphasis Area

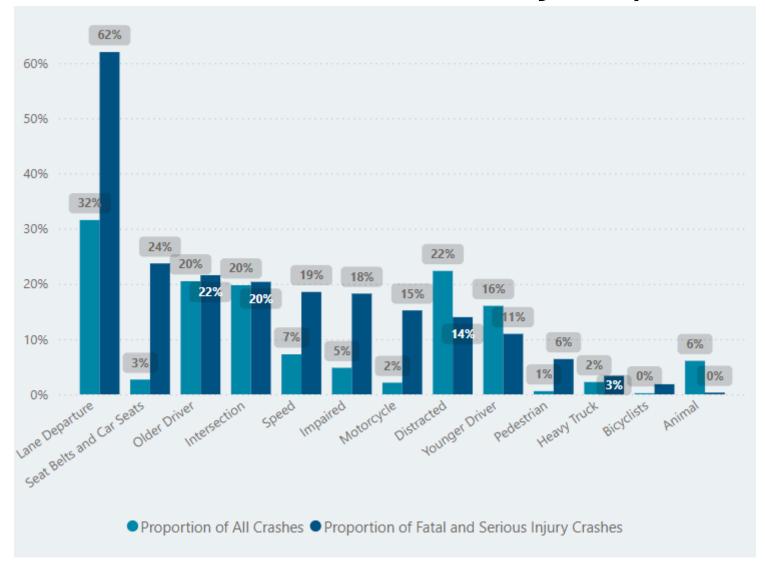


Caldwell Fatal and Serious Crashes by Emphasis Area

Fatal and Serious Injury Crashes by Emphasis Area



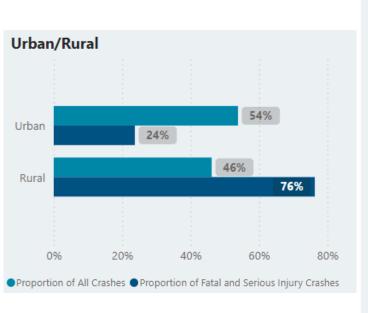
Proportion of Caldwell Crashes by Emphasis Area

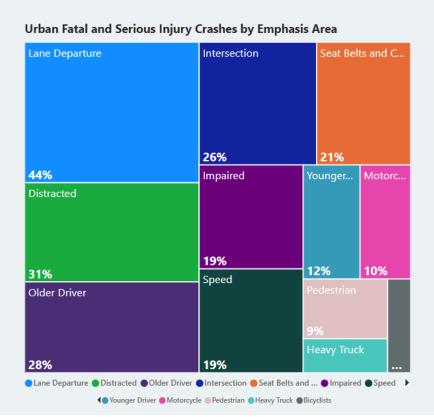


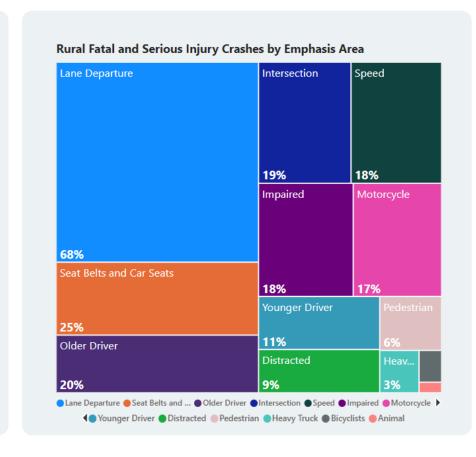
Caldwell Crashes Emphasis Area Comparison Table

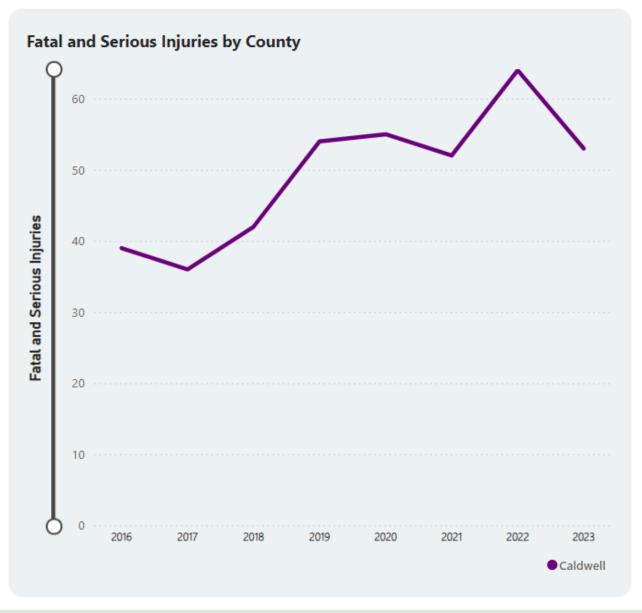
Emphasis Areas	Alexander	Burke	Caldwell	Catawba	Statewide
Animal	1%	0%	0%	1%	1%
Bicyclists		2%	2%	2%	2%
Distracted	14%	20%	14%	12%	12%
Heavy Truck	1%	5%	3%	5%	5%
Impaired	21%	21%	18%	21%	23%
Intersection	21%	16%	20%	24%	22%
Lane Departure	69%	65%	62%	54%	53%
Motorcycle	18%	23%	15%	20%	14%
Older Driver	17%	15%	22%	19%	17%
Pedestrian	4%	7%	6%	8%	10%
Seat Belts and Car Seats	25%	25%	24%	22%	27%
Speed	17%	16%	19%	11%	18%
Younger Driver	15%	11%	11%	11%	11%

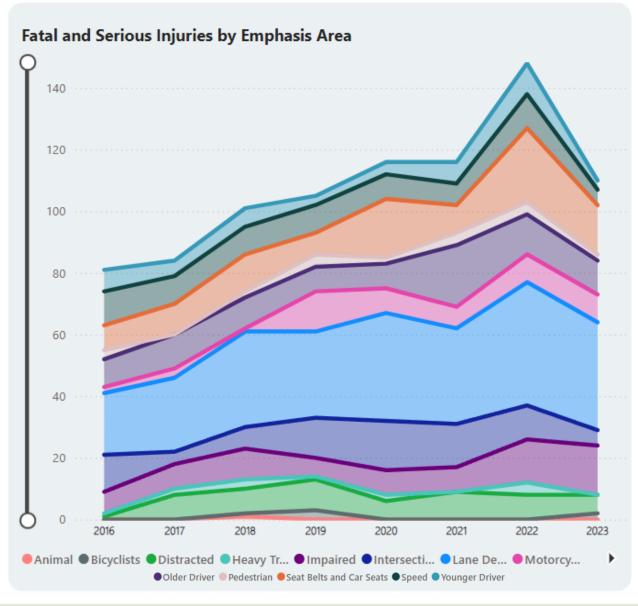
Caldwell Urban and Rural Crashes

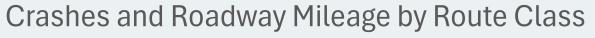


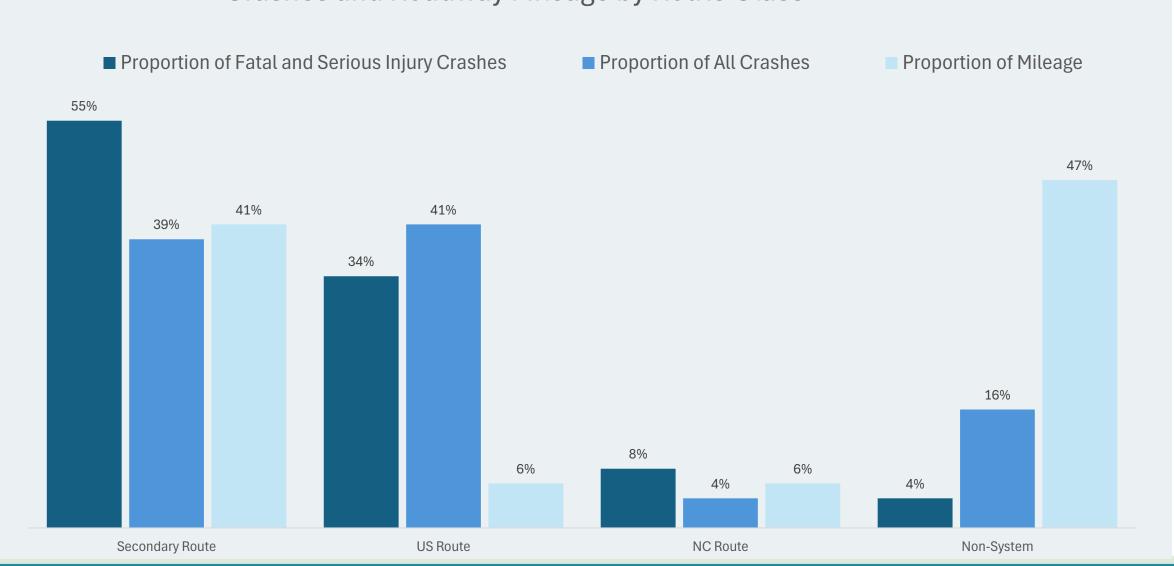




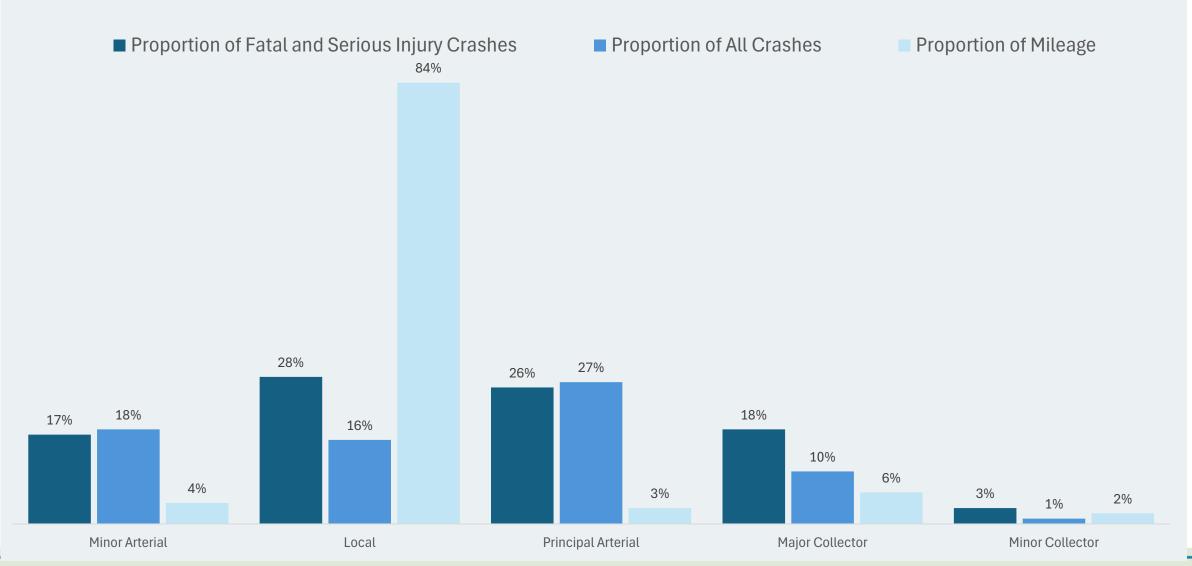




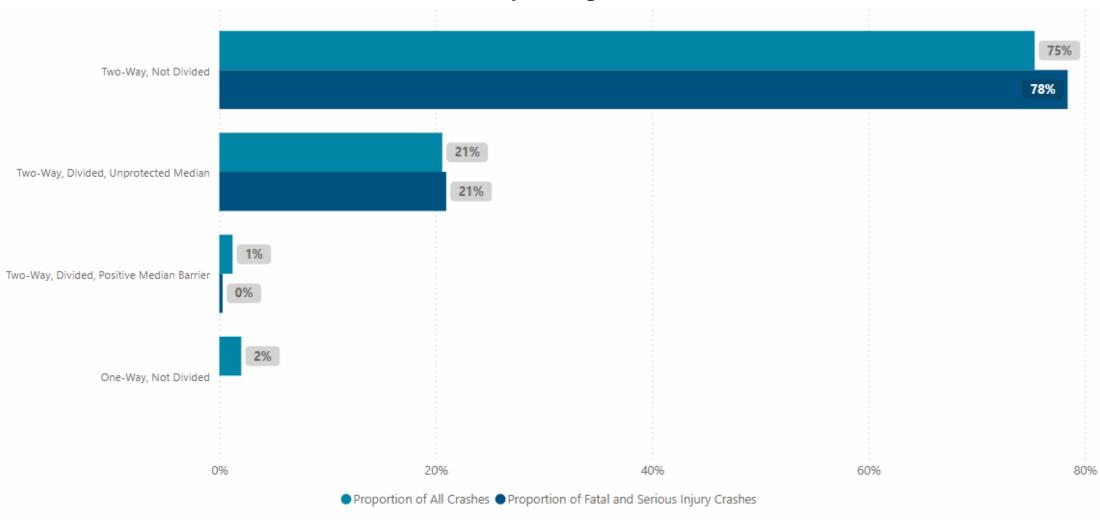


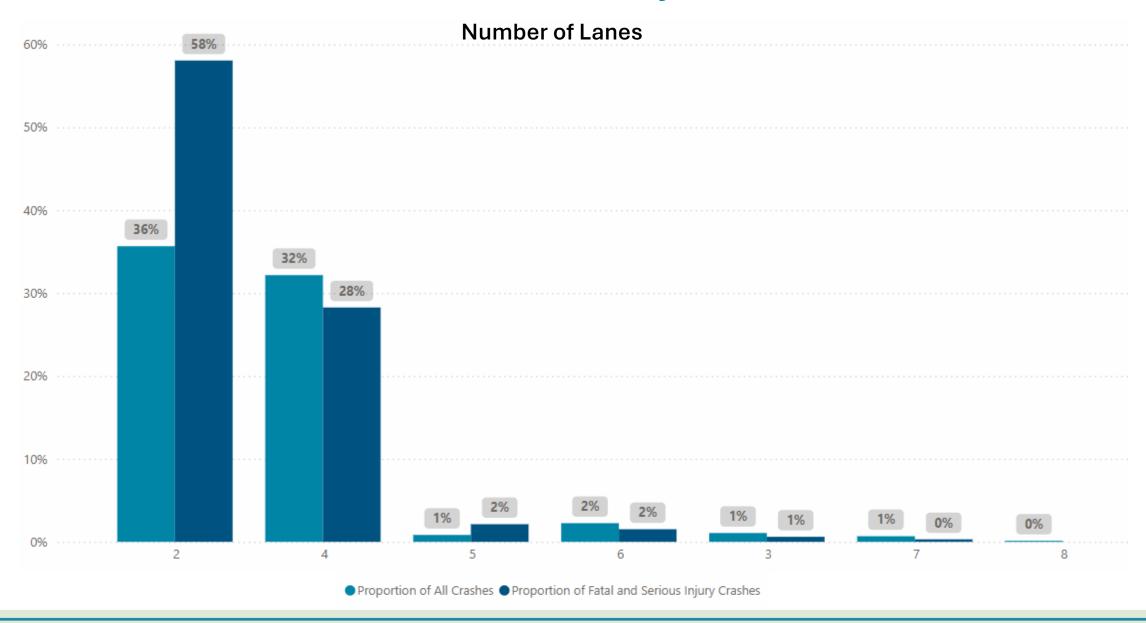


Crashes and Roadway Mileage by Functional Class

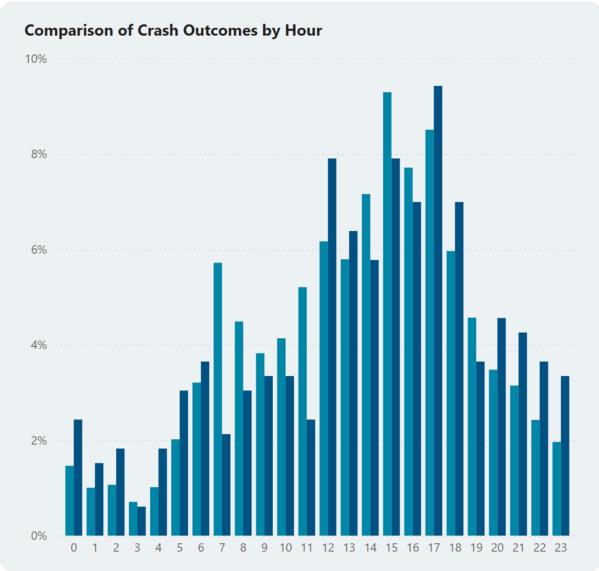


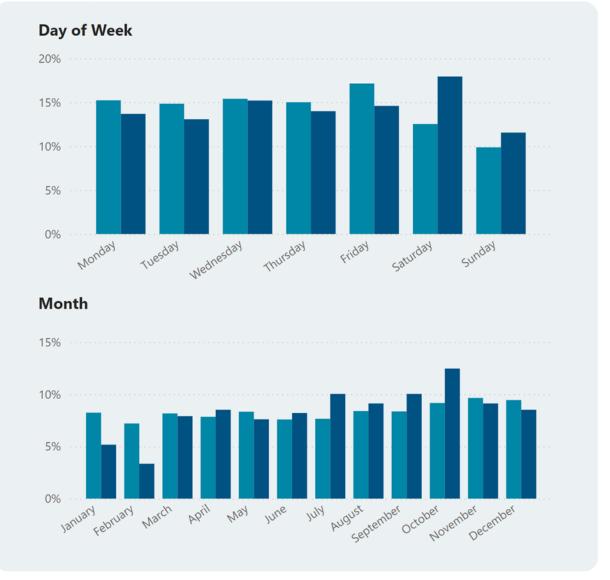
Roadway Configuration



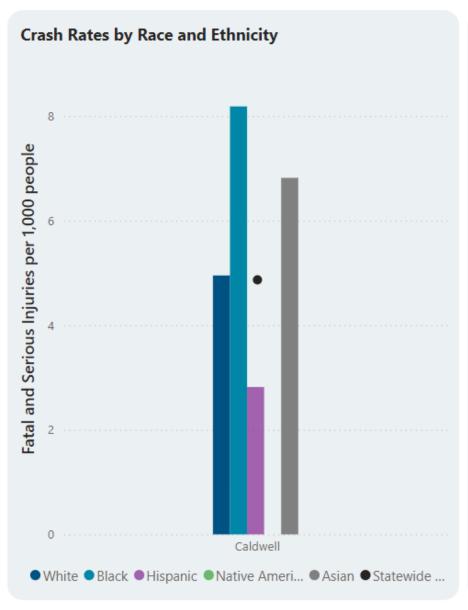


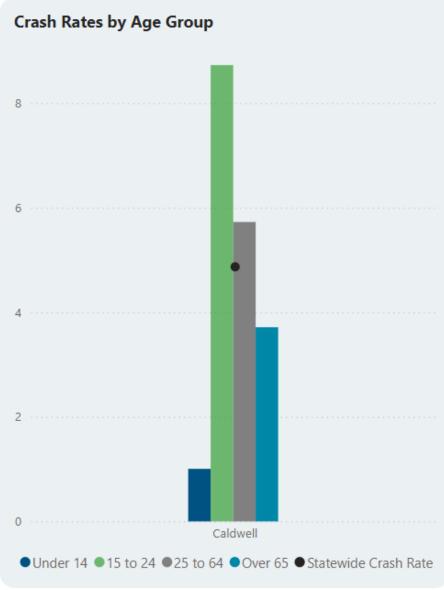
Caldwell County

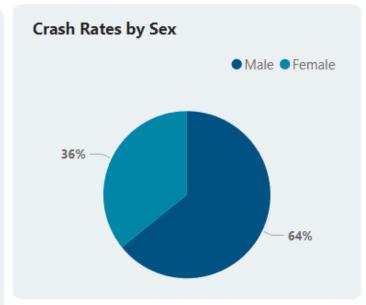


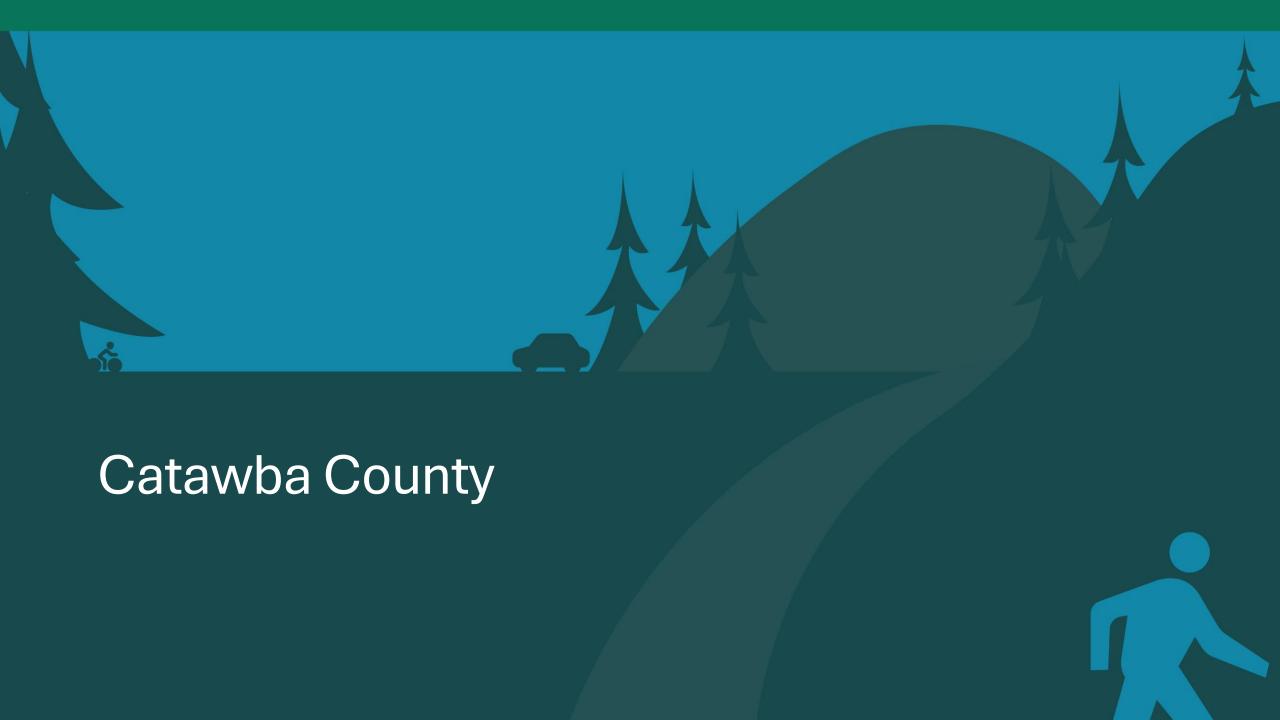


Caldwell County

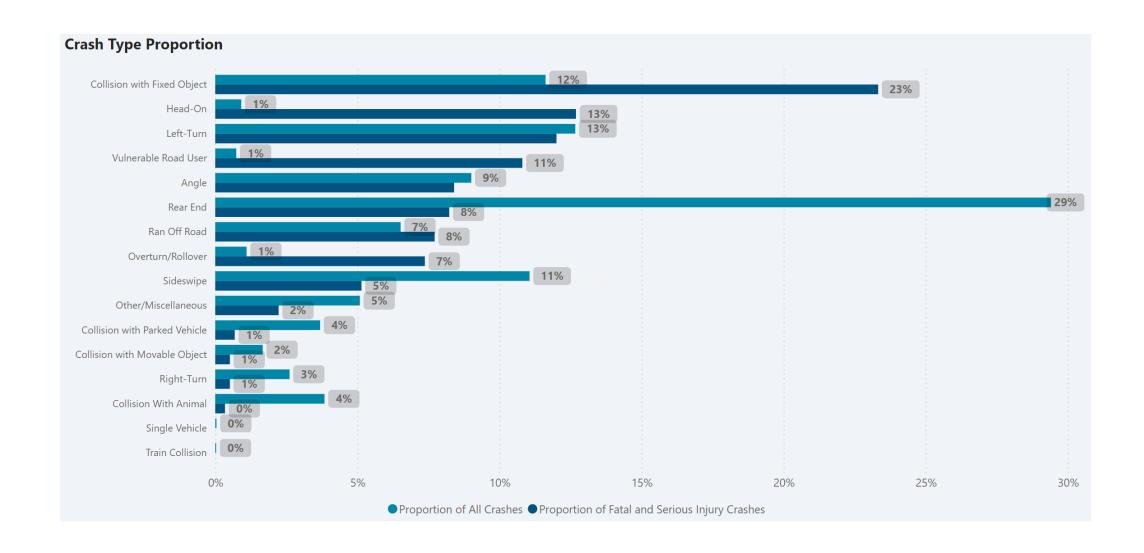




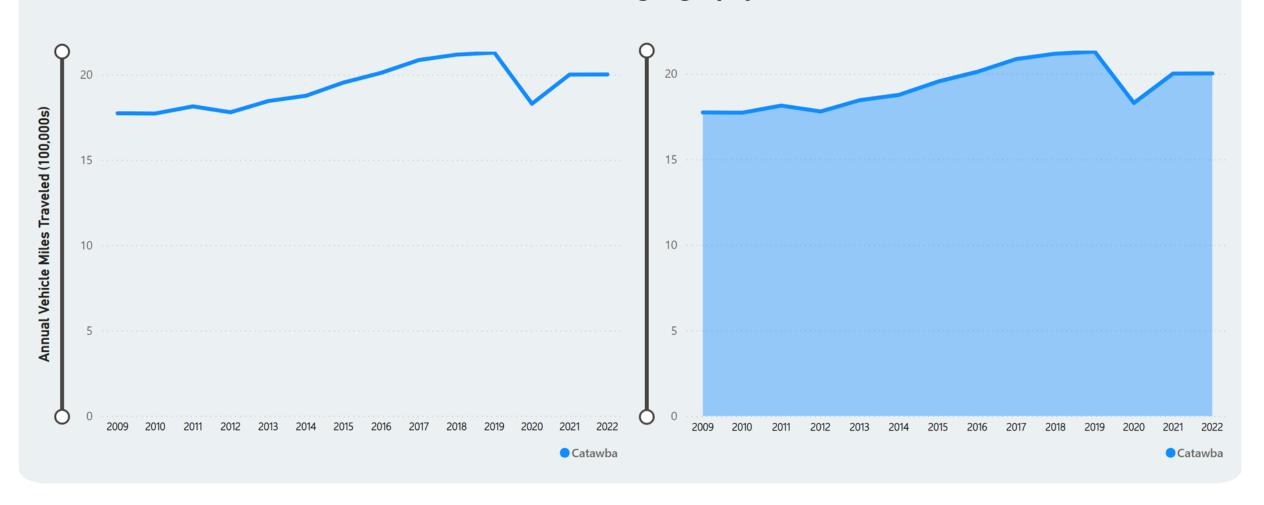


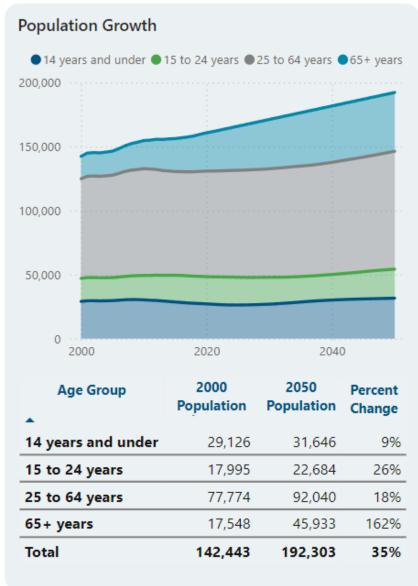


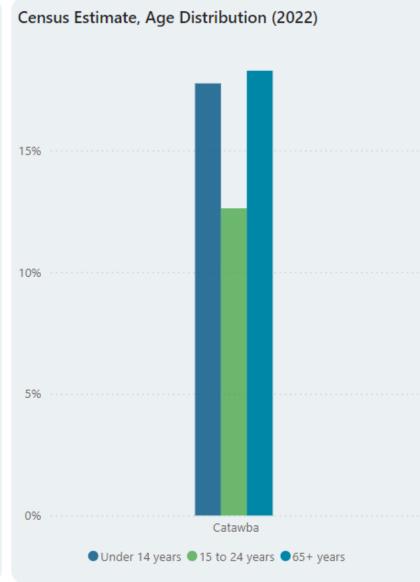


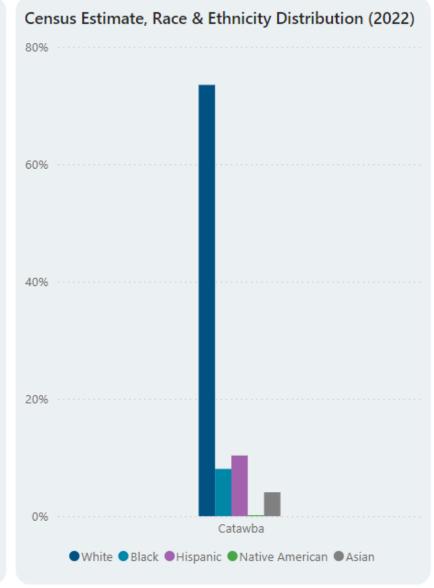


Between 2009 and 2022 Annual VMT changed by 12.8 % for all selected geography

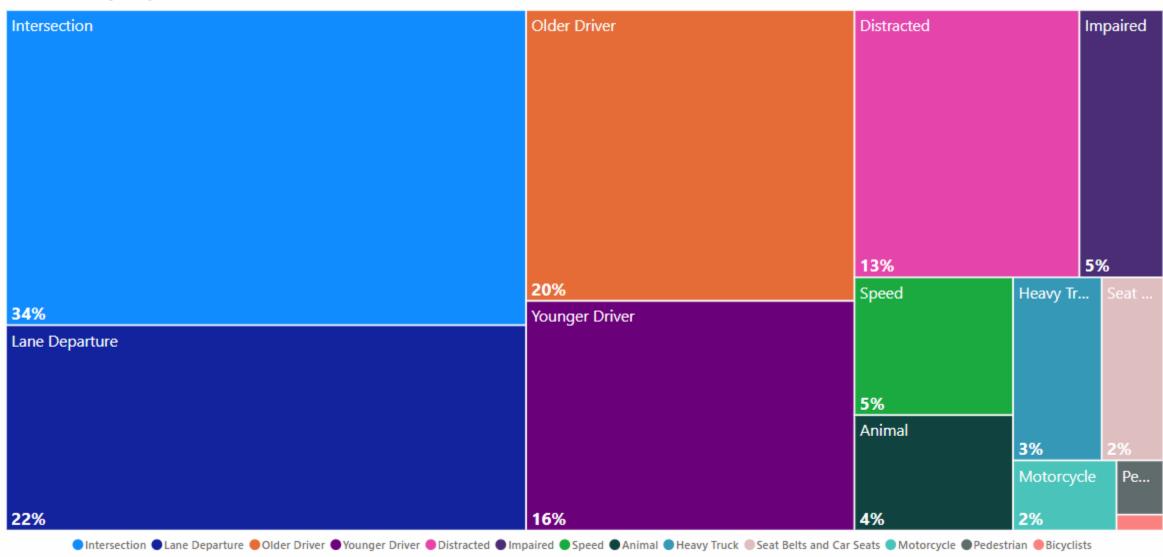




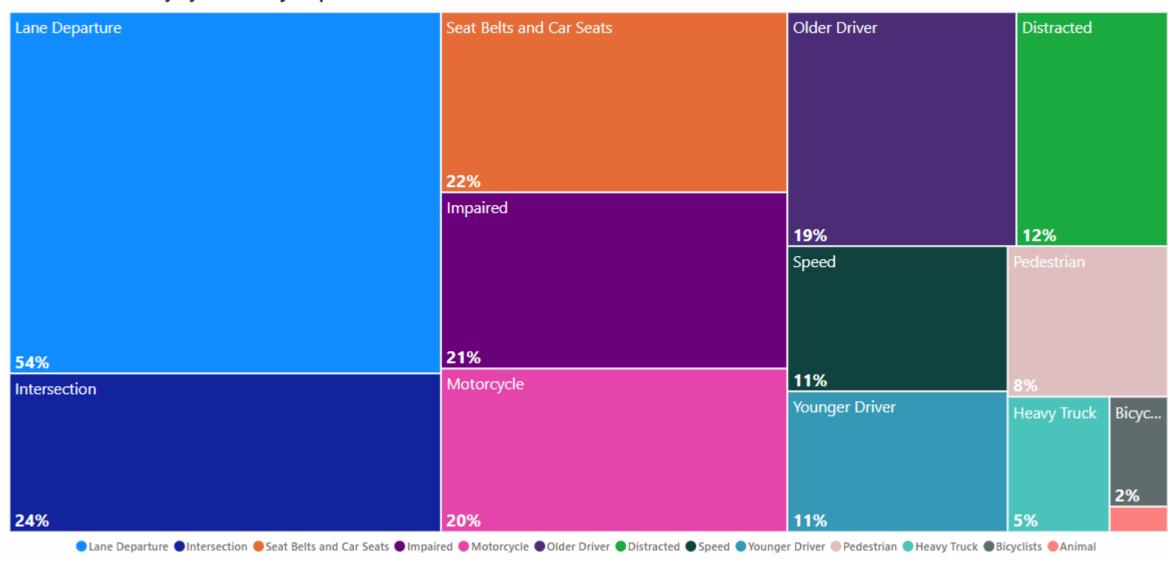




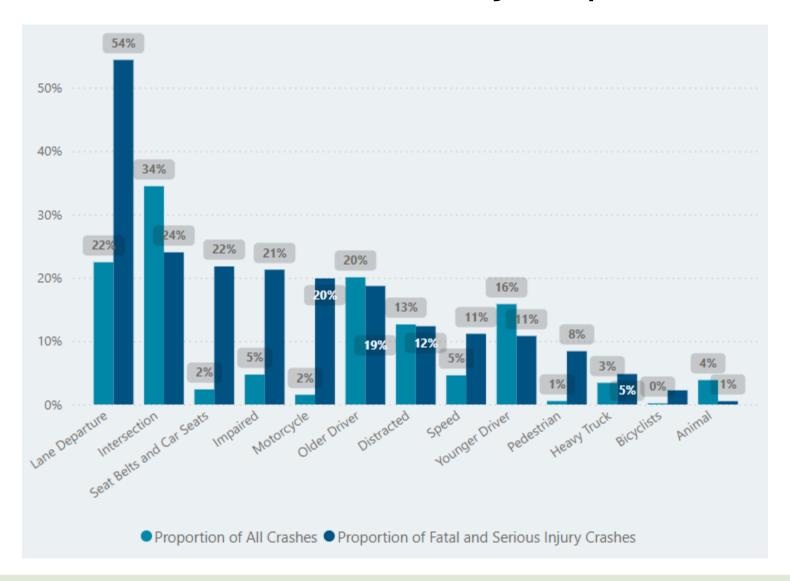
All Crashes by Emphasis Area



Fatal and Serious Injury Crashes by Emphasis Area



Proportion of Catawba Crashes by Emphasis Area

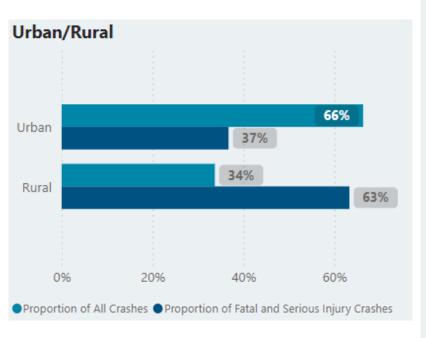


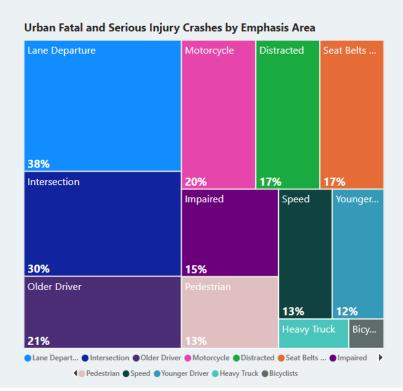
Catawba Crashes Emphasis Area Comparison Table

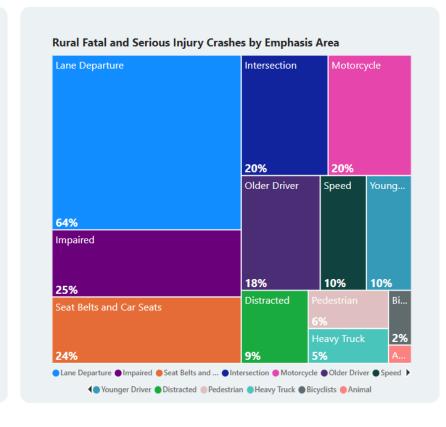
Proportion of Fatal and Serious Injury Crashes by County

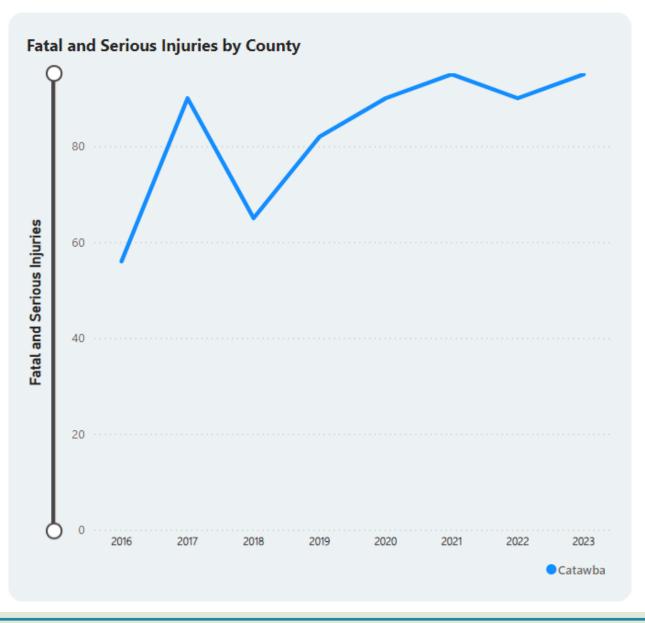
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Distracted	14%	20%	14%	12%	12%
Heavy Truck	1%	5%	3%	5%	5%
Impaired	21%	21%	18%	21%	23%
Intersection	21%	16%	20%	24%	22%
Lane Departure	69%	65%	62%	54%	53%
Motorcycle	18%	23%	15%	20%	14%
Older Driver	17%	15%	22%	19%	17%
Pedestrian	4%	7%	6%	8%	10%
Seat Belts and Car Seats	25%	25%	24%	22%	27%
Speed	17%	16%	19%	11%	18%
Younger Driver	15%	11%	11%	11%	11%

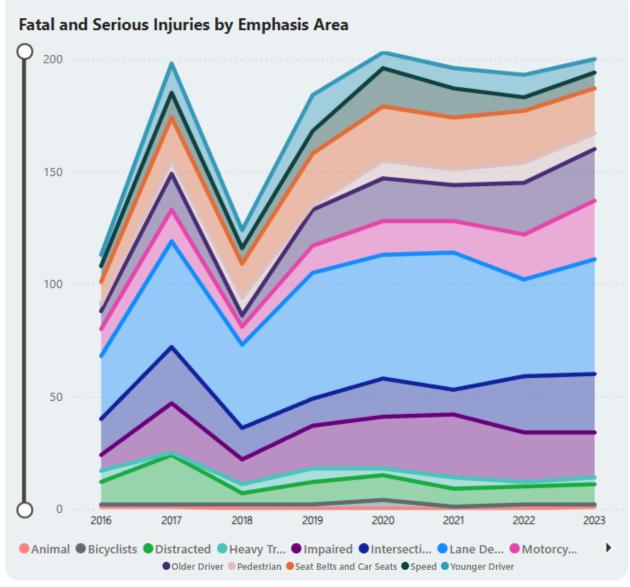
Catawba Urban and Rural Crashes



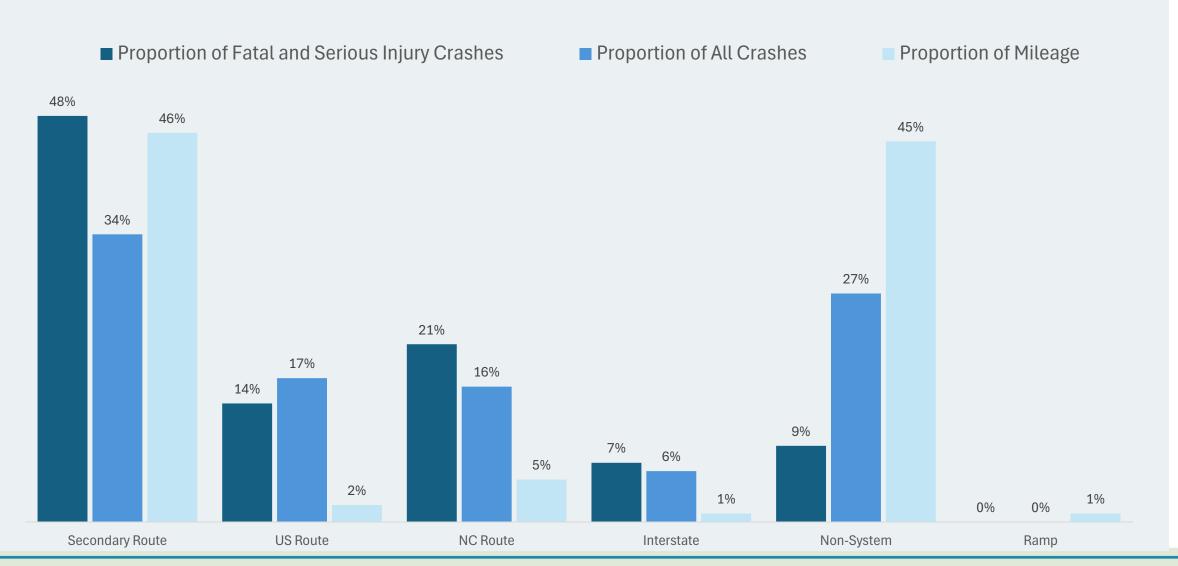




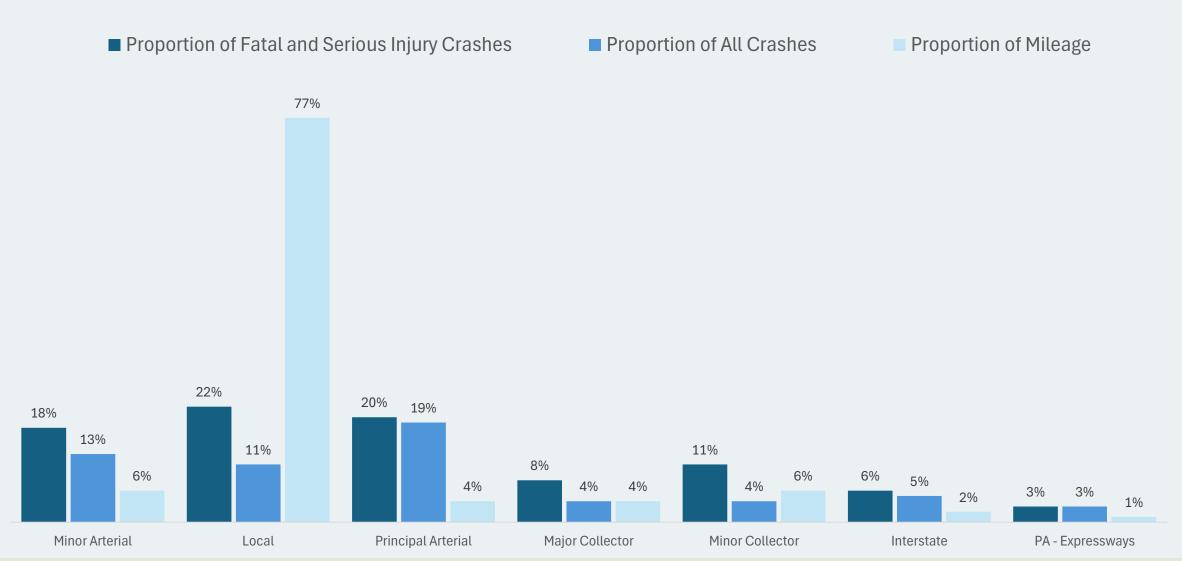




Crashes and Roadway Mileage by Route Class (Catawba)



Crashes and Roadway Mileage by Functional Class (Catawba)



Roadway Configuration

