

SAFETY STUDY PHASE 1 ANALYSIS

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Transportation Planning Board
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Study Overview

- Objectives

- to understand the factors contributing to fatal and serious injury crashes in the National Capital Region (NCR);
- to determine where crashes on the roadway transportation network are over-represented;
- to identify and recommend proven effective solutions (policy, programmatic, project);
- to provide the TPB and member jurisdictions specific suggestions to improve safety; and
- to inform future Transportation Safety Subcommittee and StreetSmart efforts.

- Progress to Date

- Kickoff meeting – June 26, 2019
- Benchmark Peer Evaluation - complete
- Collection and Processing of Safety Data – complete
- Analysis of Safety Data – in process

- Project Timeline

- Original contract through February 2020 – extended through November 2020



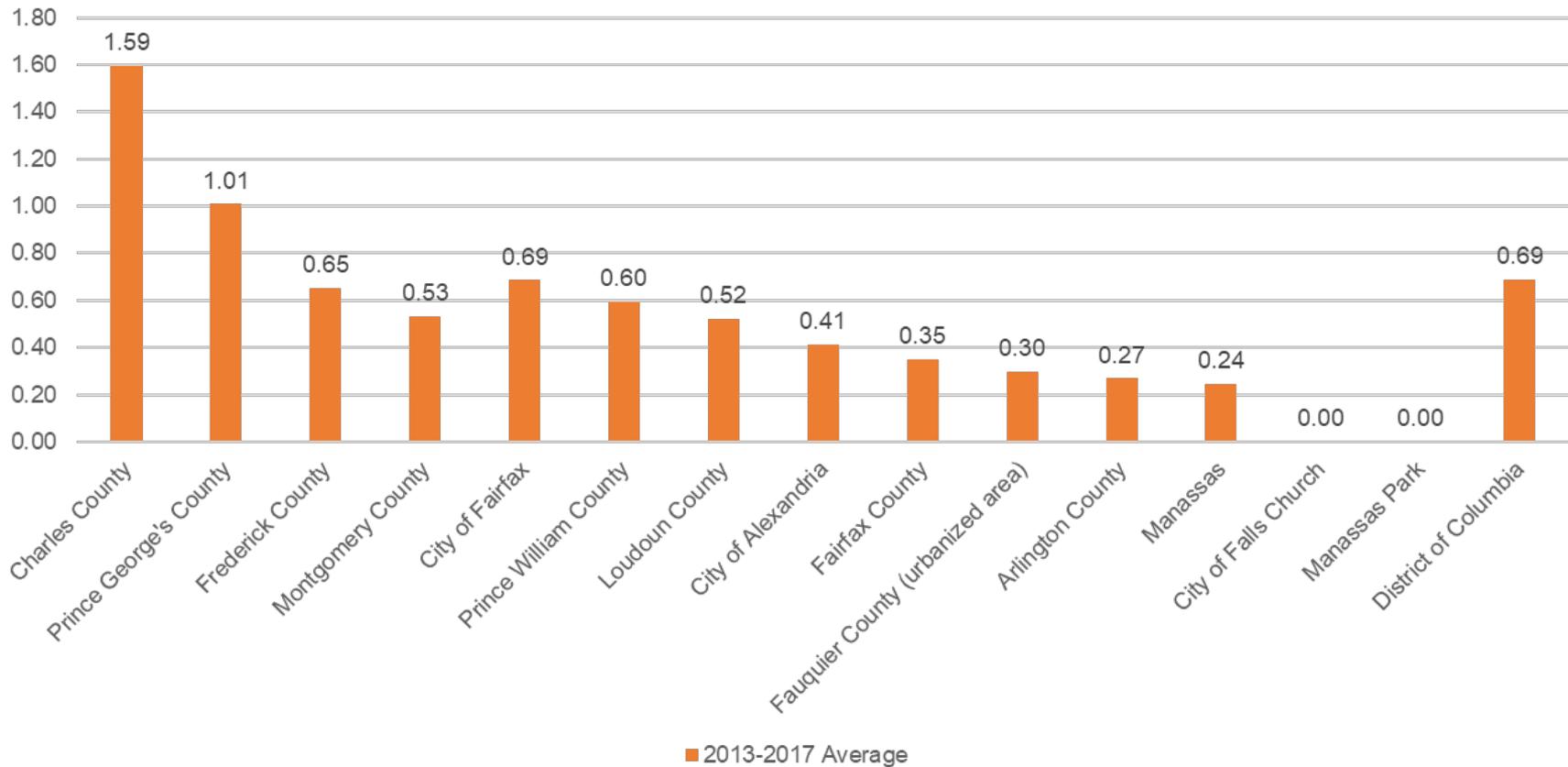
Crashes by Jurisdiction (2013-2017)

Crash Severity by Jurisdiction			
Jurisdiction	Fatalities	Serious Injuries	Total Crashes
District of Columbia	124	1,765	118,166
Charles County, MD	103	955	13,391
Frederick County, MD	101	475	16,207
Montgomery County, MD	200	1,998	64,598
Prince George's County, MD	455	2,363	76,381
Arlington County, VA	21	303	12,592
Fairfax County, VA	172	3,423	68,645
Fauquier County, VA (urbanized area)	3	78	1,706
Loudoun County, VA	69	899	23,195
Prince William County, VA	104	1,117	28,306
Alexandria, VA	15	220	8,701
Fairfax City, VA	6	108	2,967
Falls Church, VA	0	79	681
Manassas, VA	2	324	2,933
Manassas Park, VA	0	7	382
Urban Core	160	2,288	139,459
Inner Suburbs	833	7,971	213,272
Outer Suburbs	382	3,855	86,120
Total	1,375	14,114	438,851



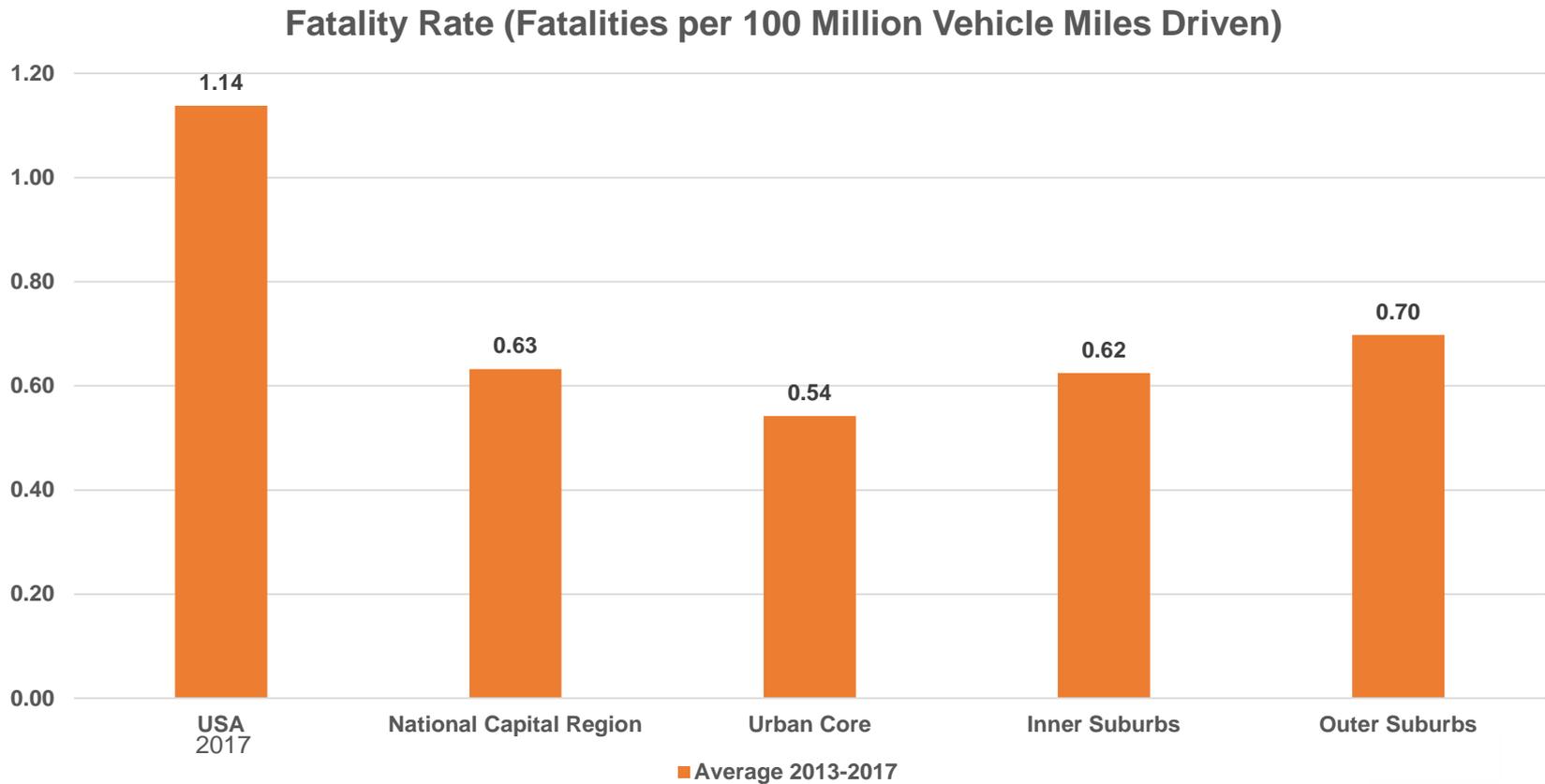
Fatality Rate by Jurisdiction

(per 100 million vehicle miles traveled)



Fatality Rate by Sub-regional Area

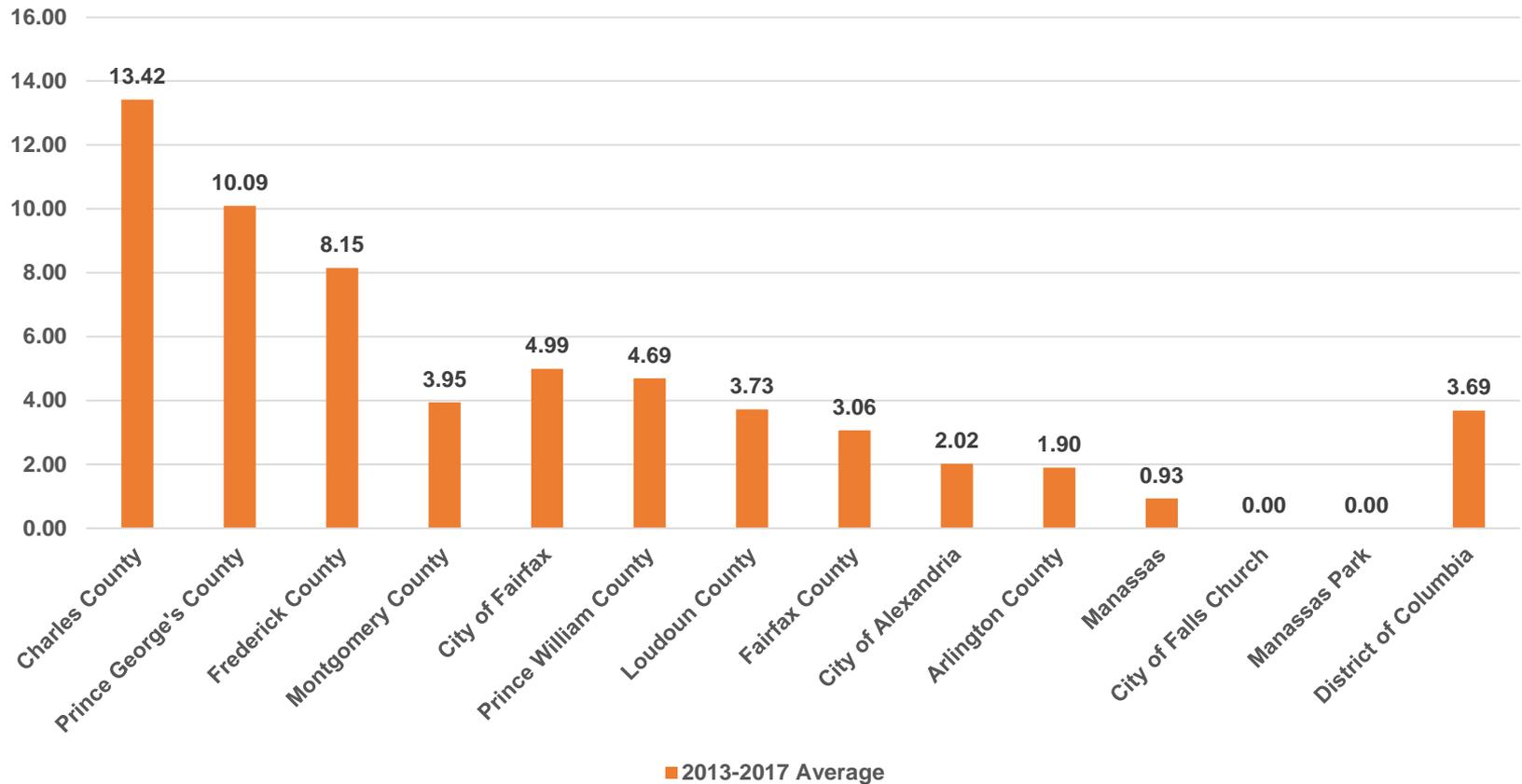
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Fatality Rate by Jurisdiction

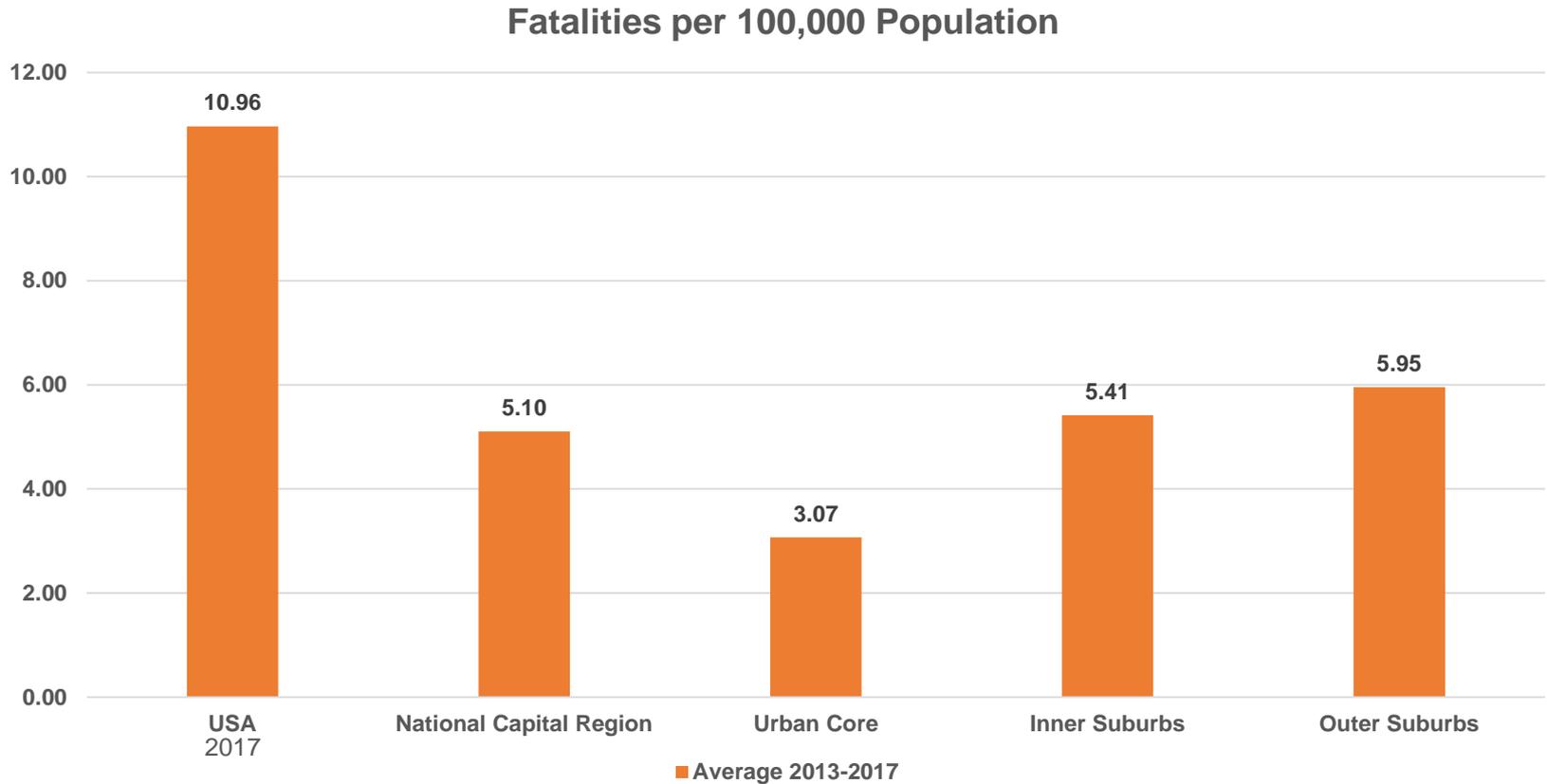
(per 100,000 people)

Fatalities per 100,000 Population



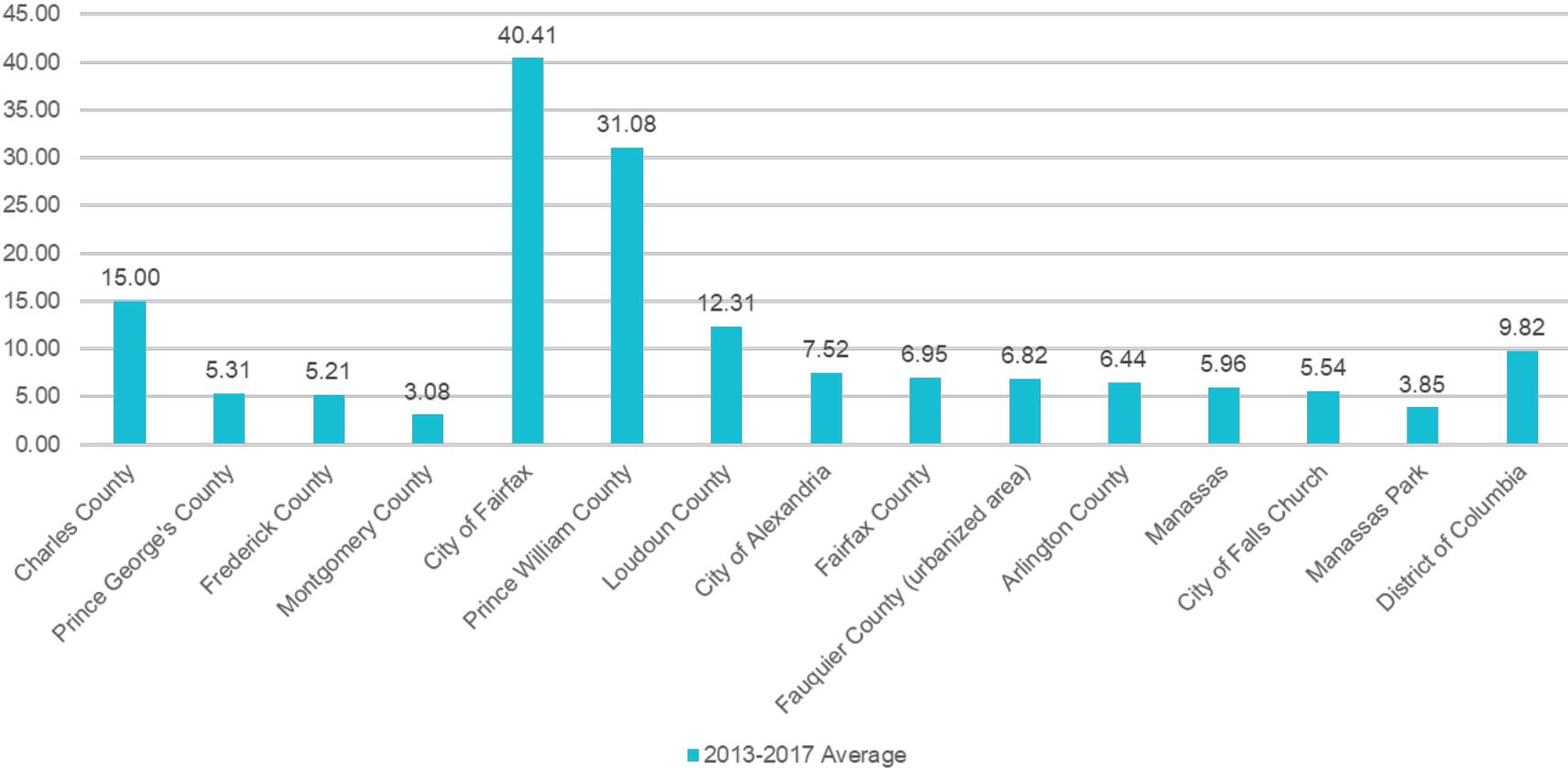
Fatality Rate by Sub-regional Area

(per 100,000 people)



Serious Injury Rate by Jurisdiction

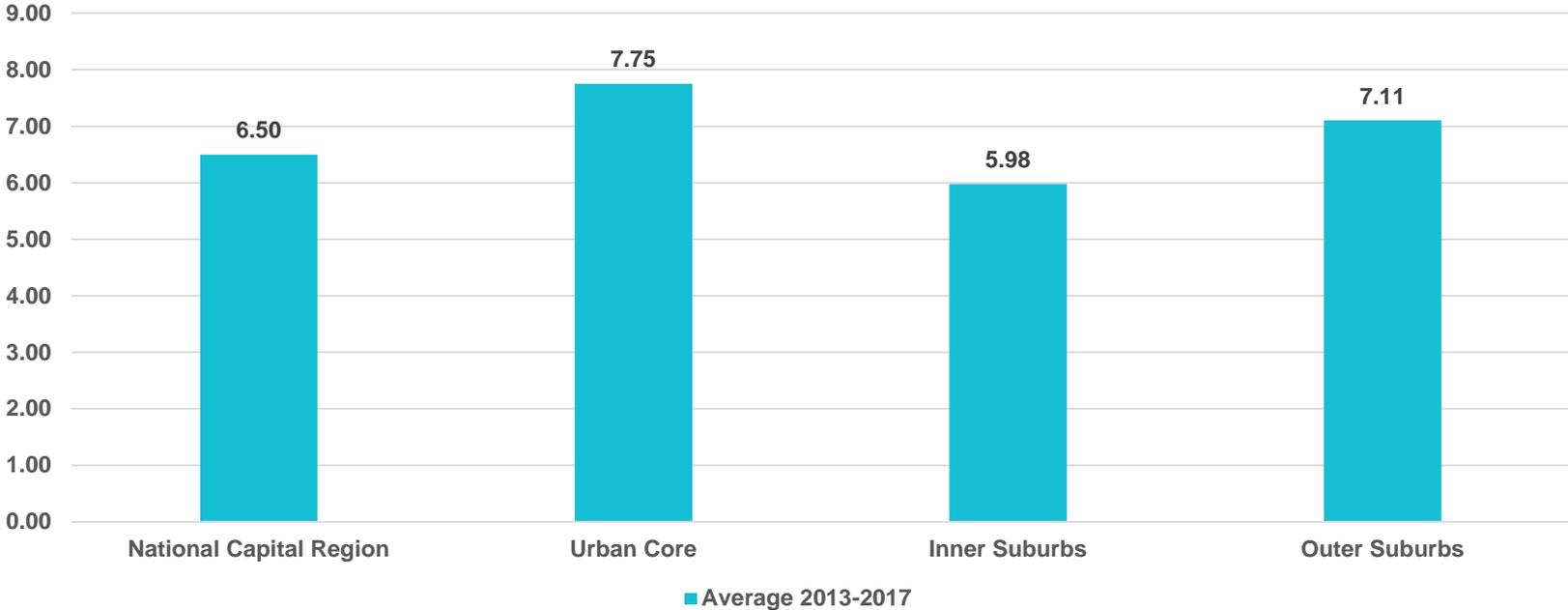
(per 100 million vehicle miles traveled)



Serious Injury Rate by Sub-regional Area

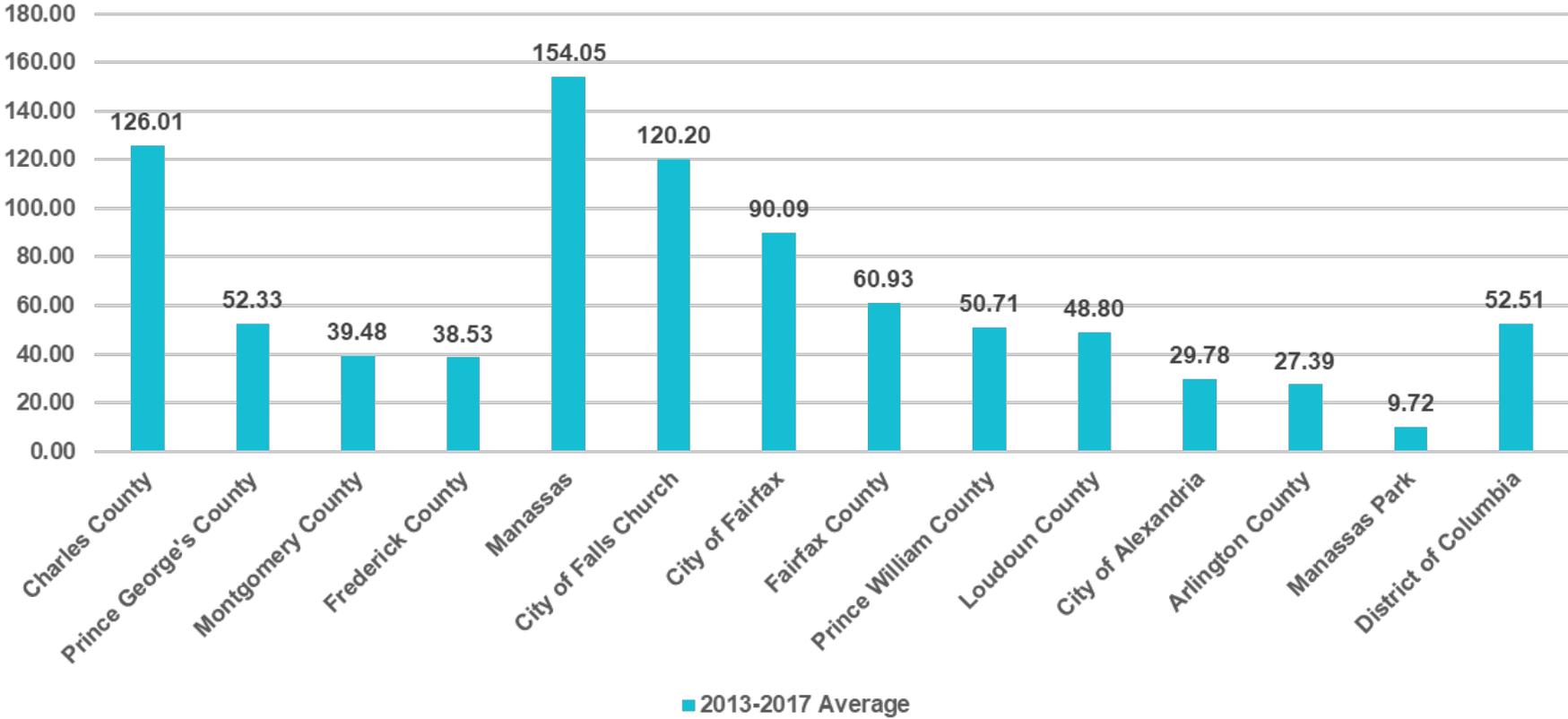
(per 100 million vehicle miles traveled)

Serious Injury Rate (Serious Injuries per 100 Million Vehicle Miles Driven)



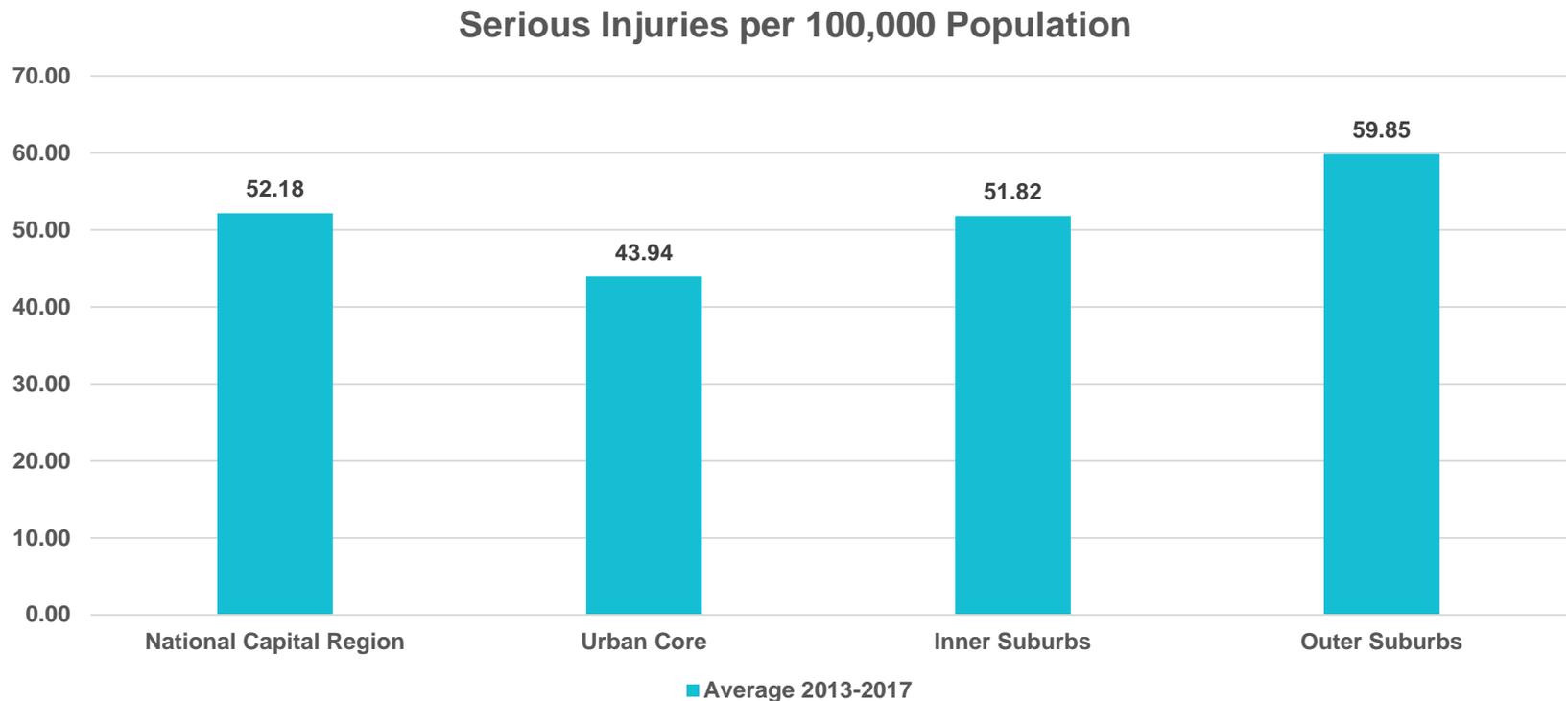
Serious Injury Rate by Jurisdiction

(per 100,000 people)

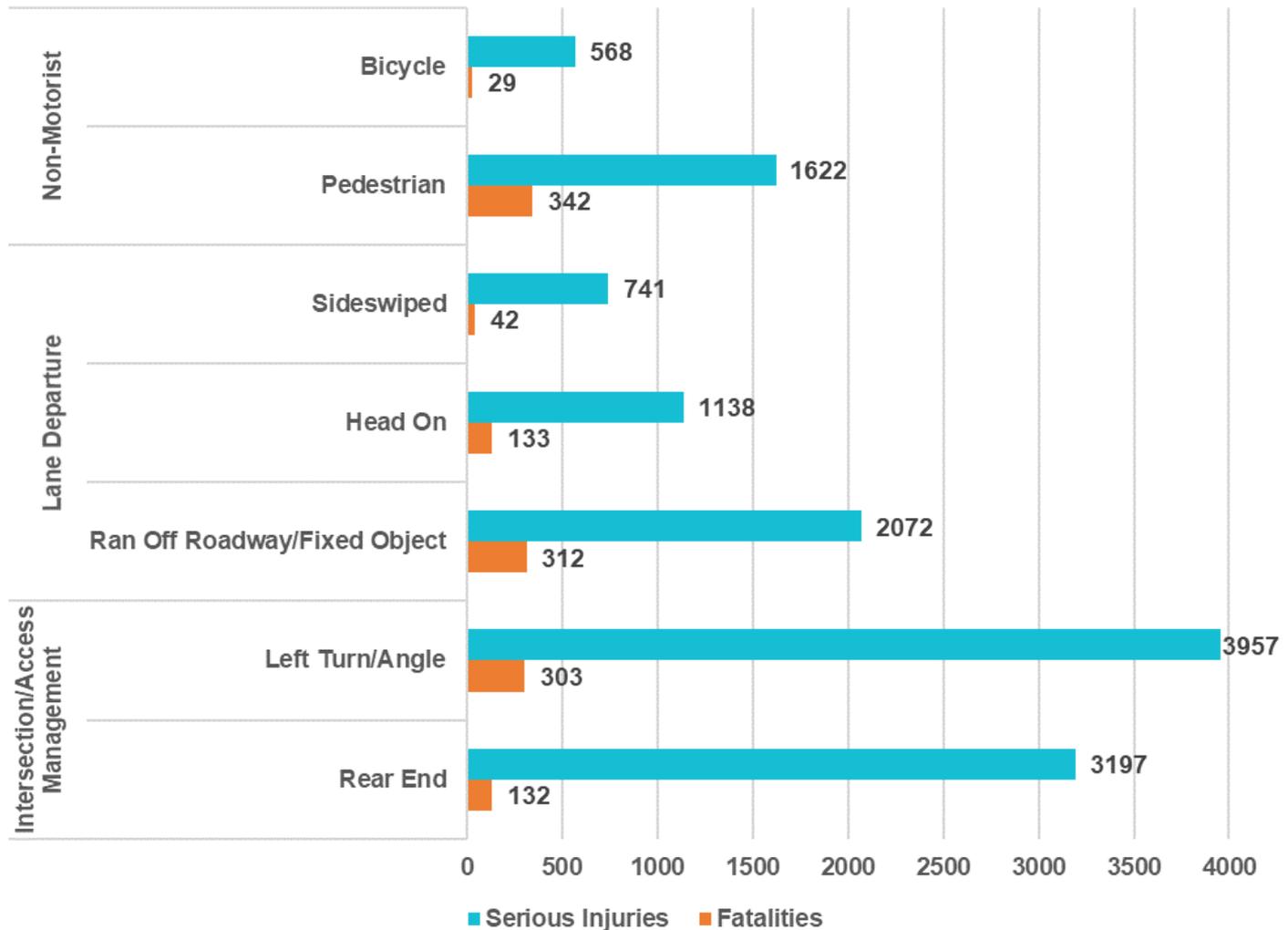


Serious Injury Rate by Sub-regional Area

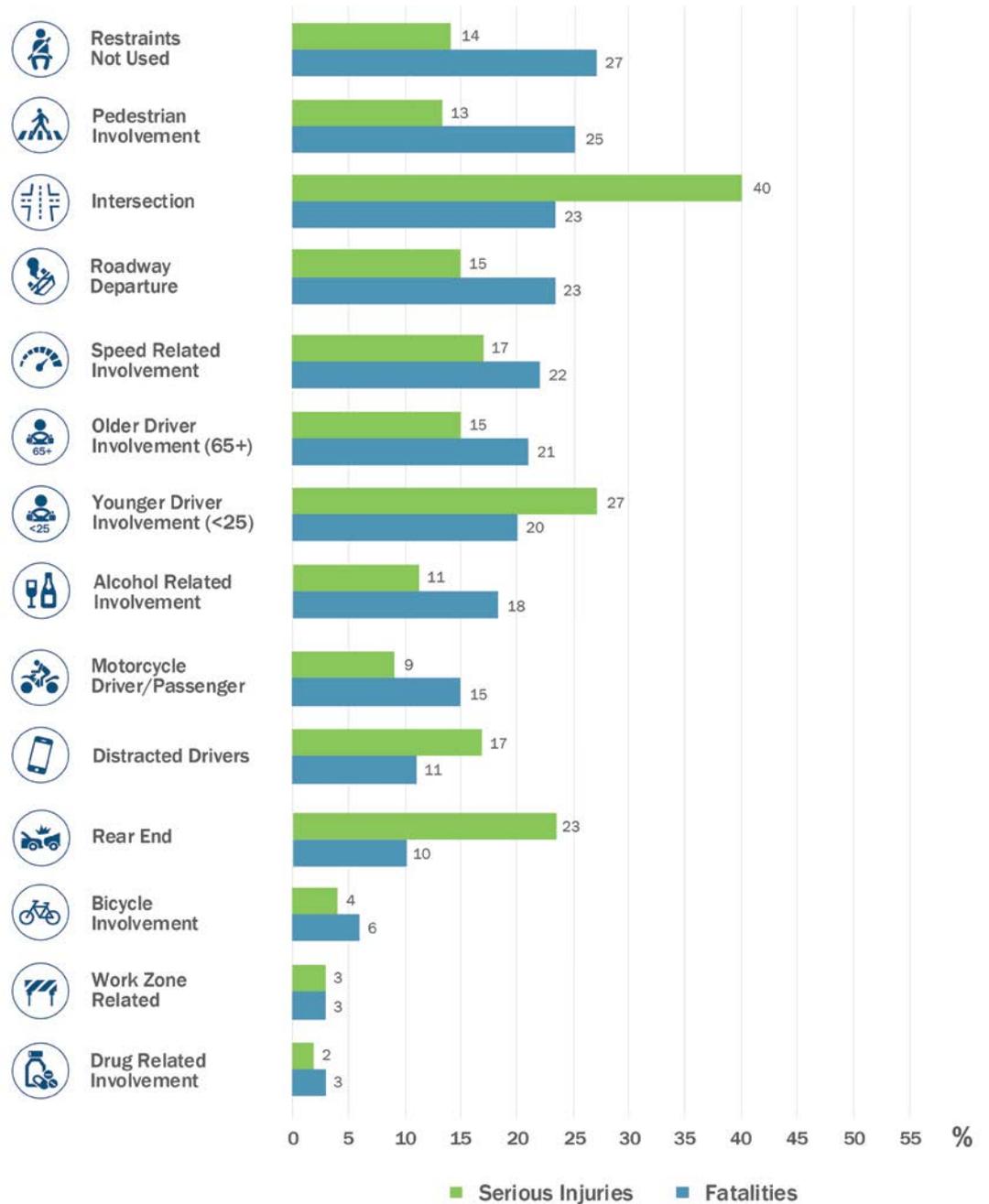
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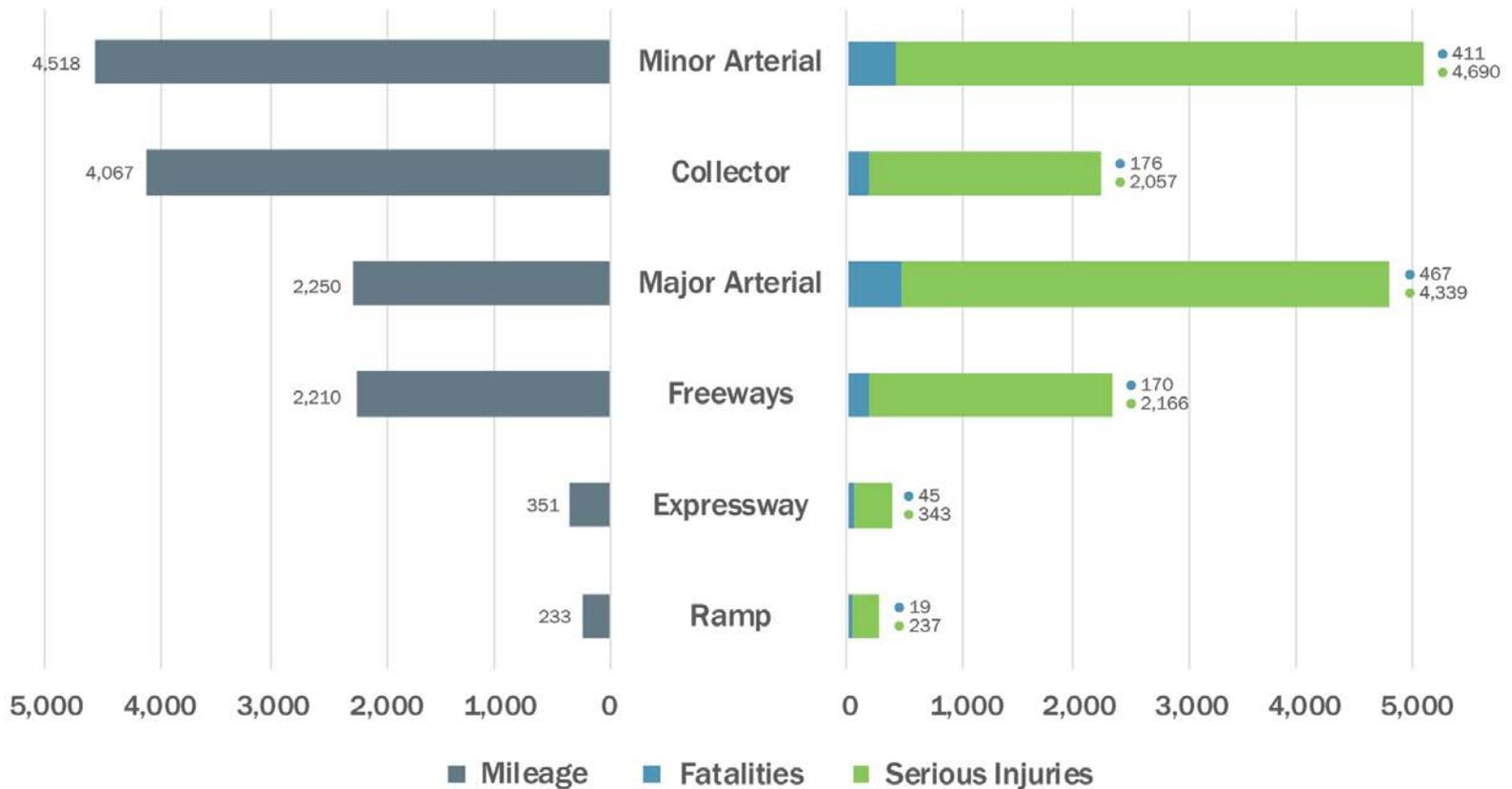
Crash Types (2013-2017)



Crash Contributing Factors (2013-2017)



Functional Class (2013-2017)



Deeper Dives

- Pedestrians
- Intersections
- Arterials



Consultant Study Next Steps

- Share Deeper Dive Findings
 - Pedestrians
 - Intersections
 - Arterials
- Conduct Additional Deeper Dive into Crashes Involving Young Drivers
- Identify intersections and roadway segments that the data suggest may be priorities for safety improvements
- Develop recommendations
 - Policy/Institutional
 - Countermeasures
 - Locations



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