

Seattle
Proposed Corridor Safety Project
Lake City Way (SR 522)
Crash Analysis

October 30, 2013



Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal, or local government that involves the location(s) mentioned in the collision data.

Summary Information

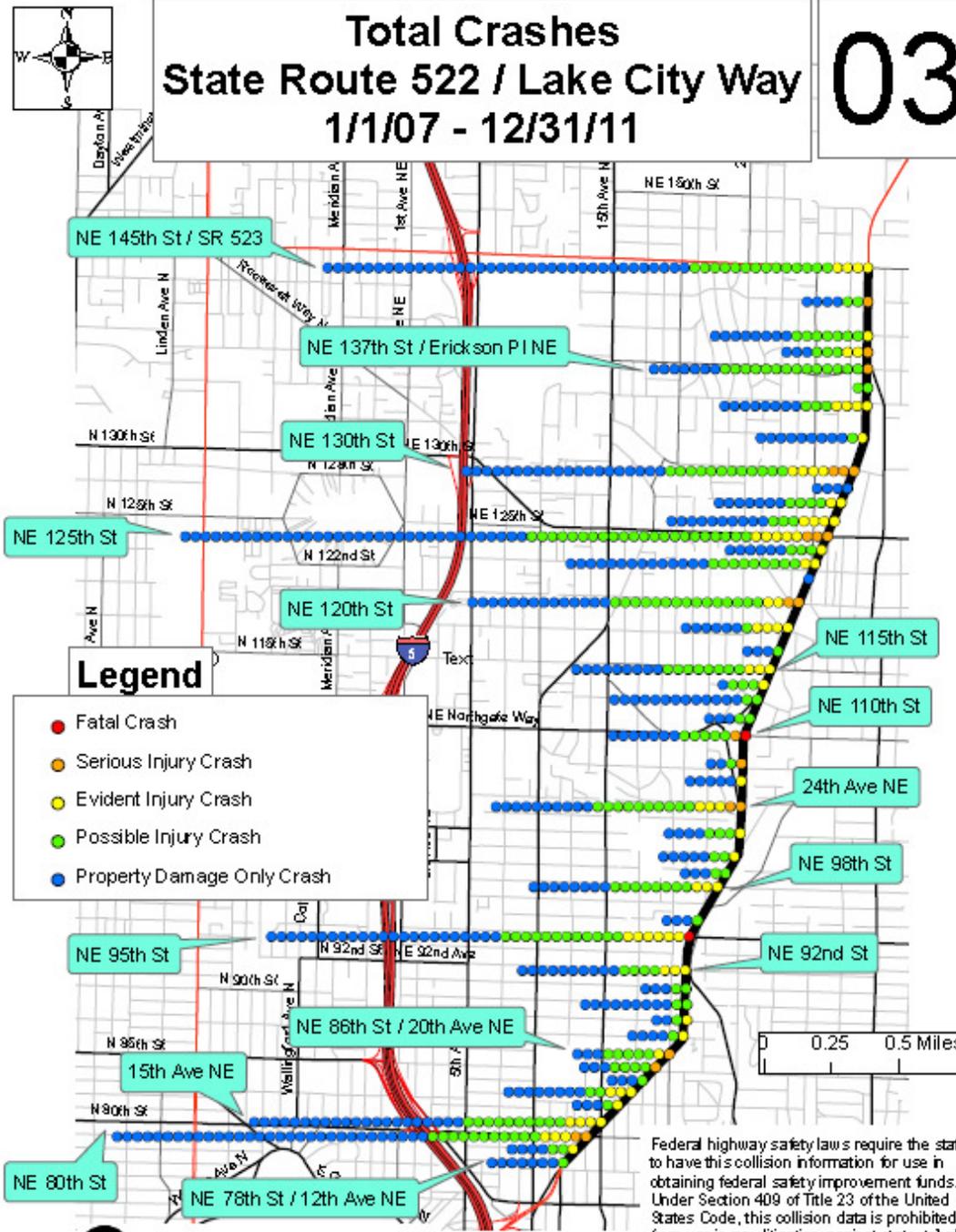
2

- Data covers 5 years (1/1/07 – 12/31/11)
- Corridor is 3.67 miles long
- Total # Crashes = **717** (143/year)
- Total # Fatal/Serious Injury Crashes = **21** (4/year)
- Total # Alcohol-Related Crashes = **29** (6/year)
- Total # Injuries = **438** (88/year)



Total Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

03



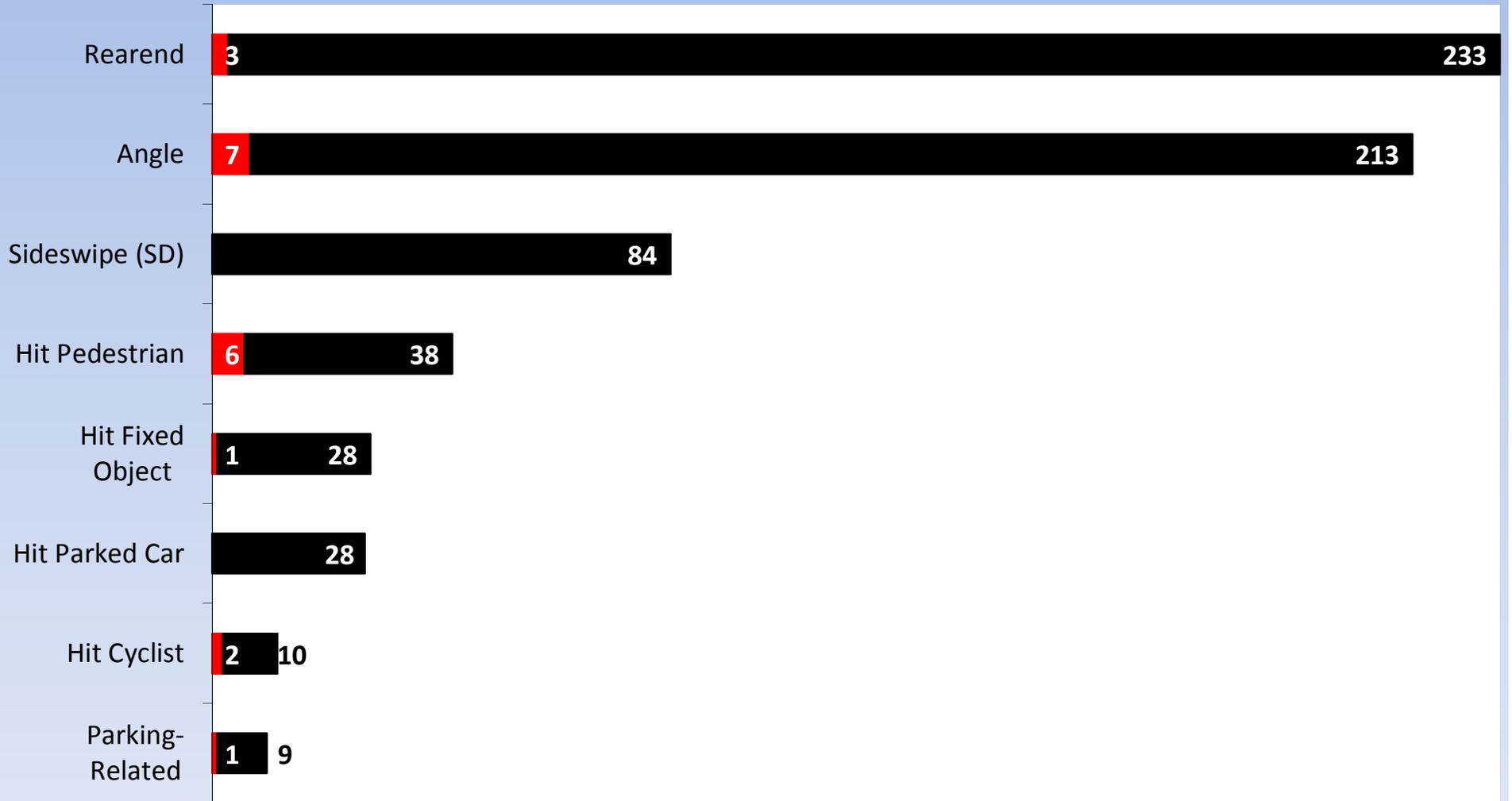
Leading Crash Types

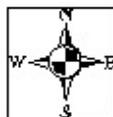
State Route 522 / Lake City Way

1/1/07 to 12/31/11

4

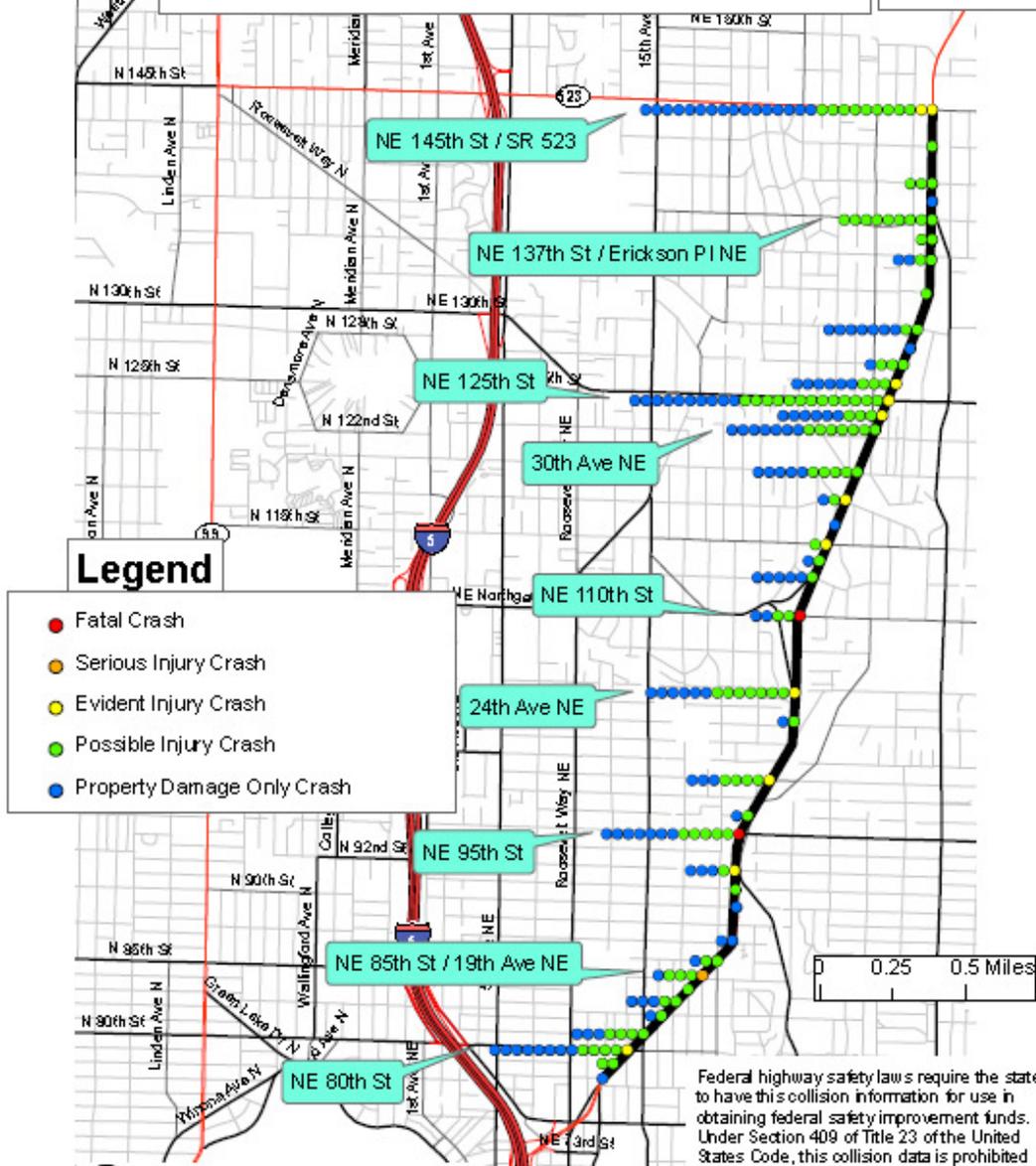
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Rearend Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

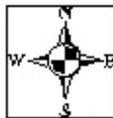
05



Legend

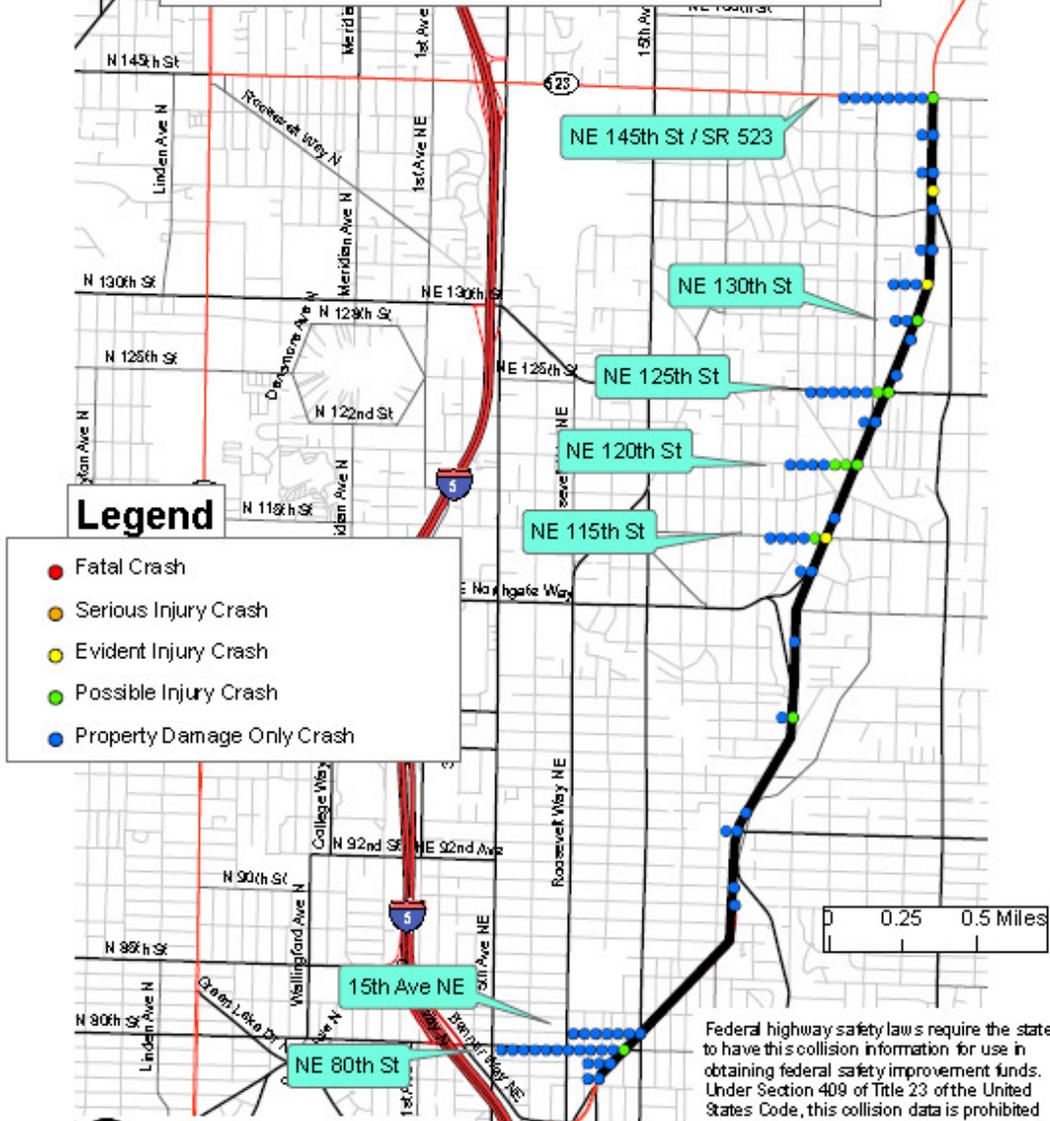
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Sideswipe Crashes Same Direction State Route 522 / Lake City Way 1/1/07 - 12/31/11

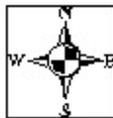
07



Legend

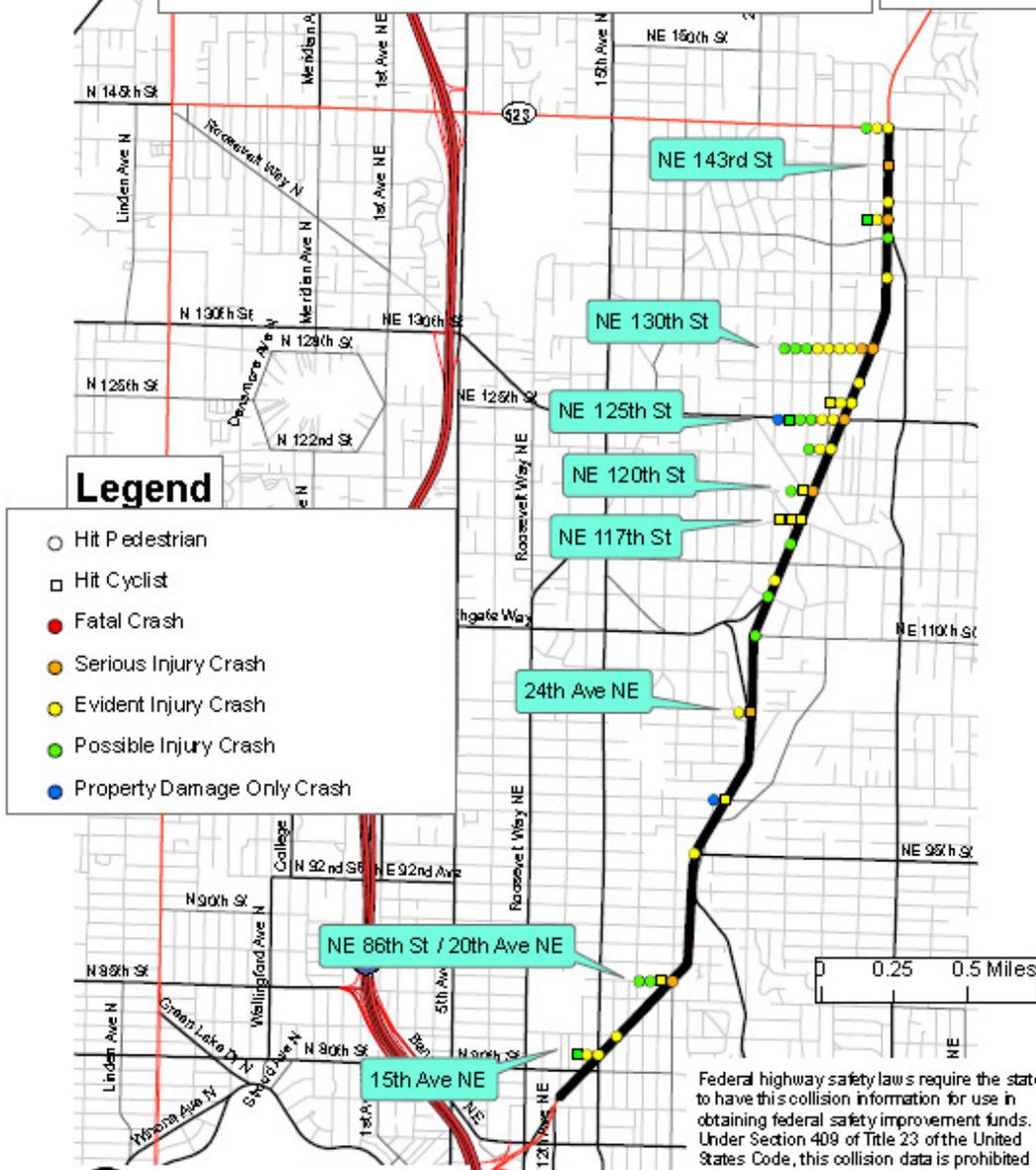
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Hit Ped & Cyclist Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

08



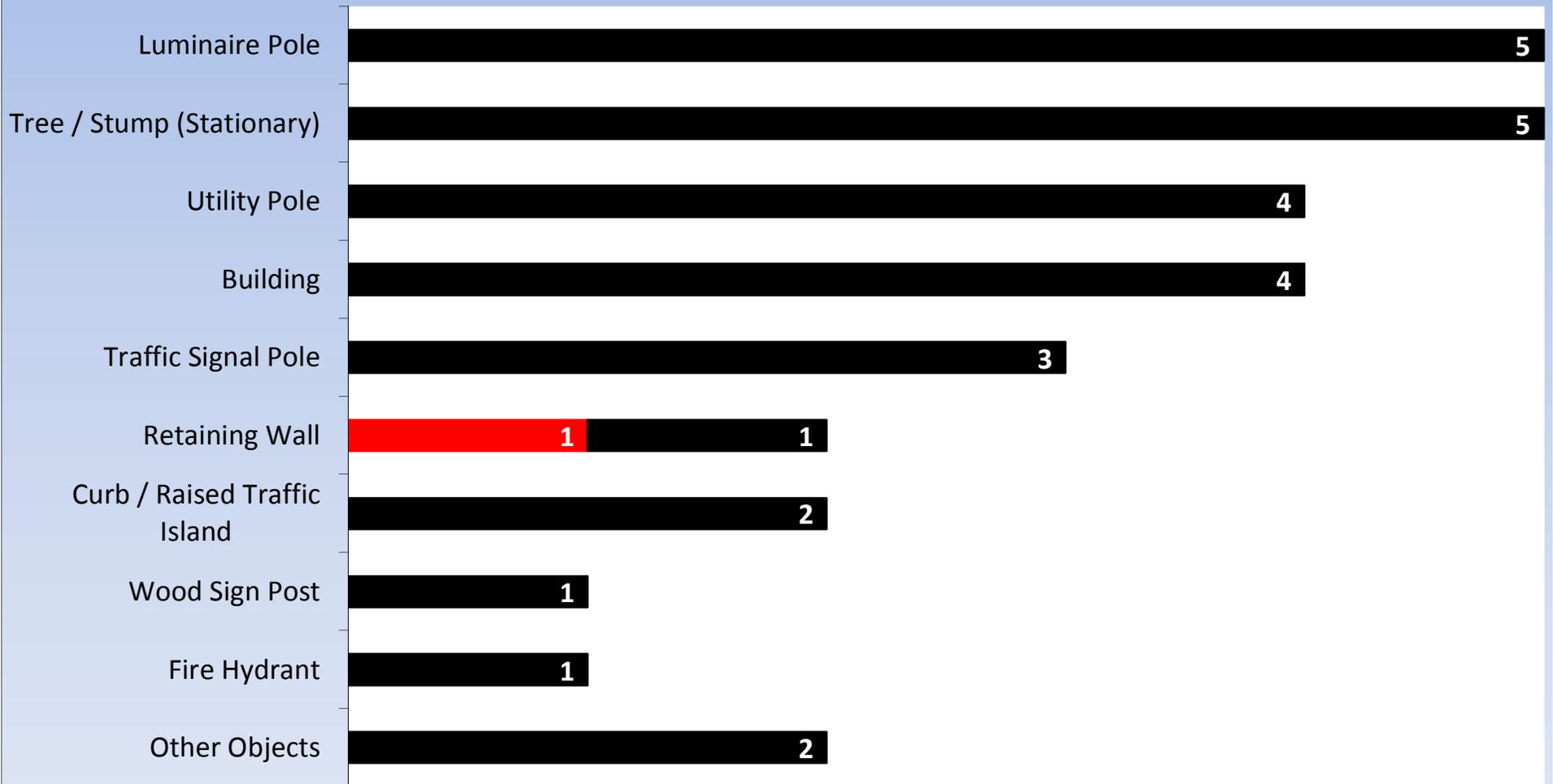
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Type of Object Struck (in Hit Fixed Object Crashes)

10

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State Route 522 / Lake City Way 1/1/07 to 12/31/11

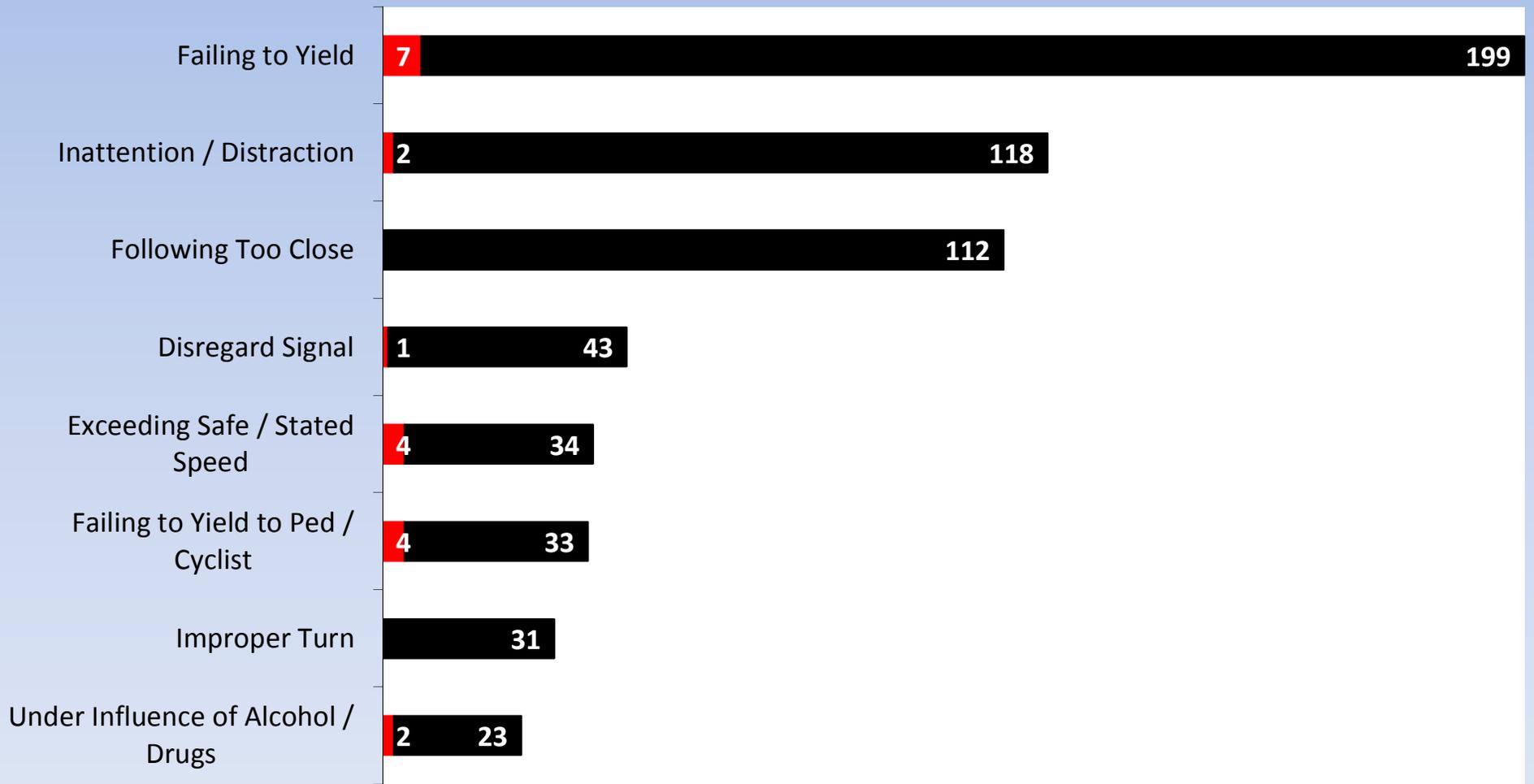


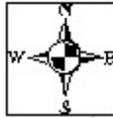
Leading Contributing Circumstances (# of Drivers)

11

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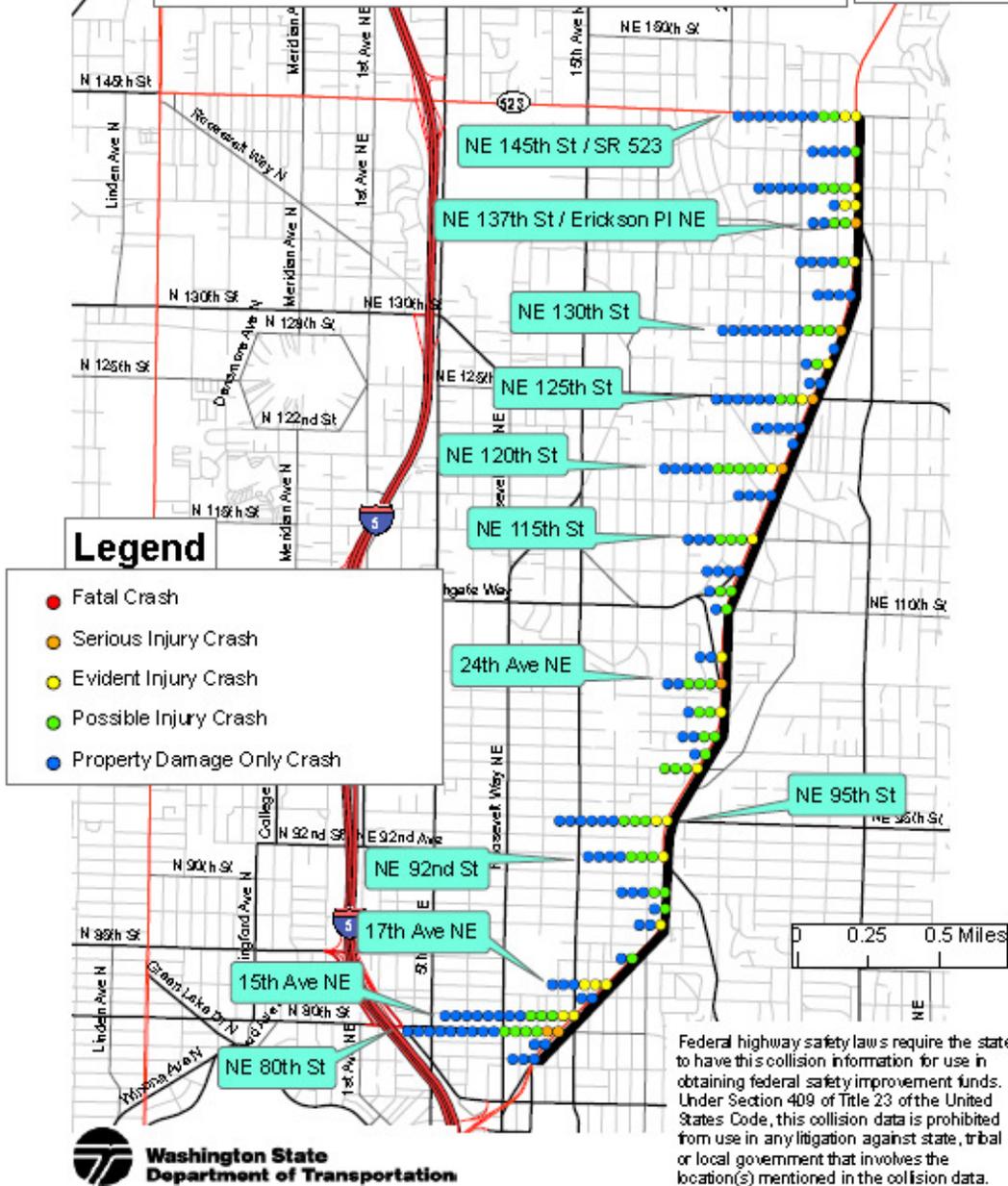
State Route 522 / Lake City Way 1/1/07 to 12/31/11

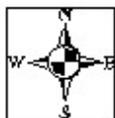




Drivers who Fail to Yield State Route 522 / Lake City Way 1/1/07 - 12/31/11

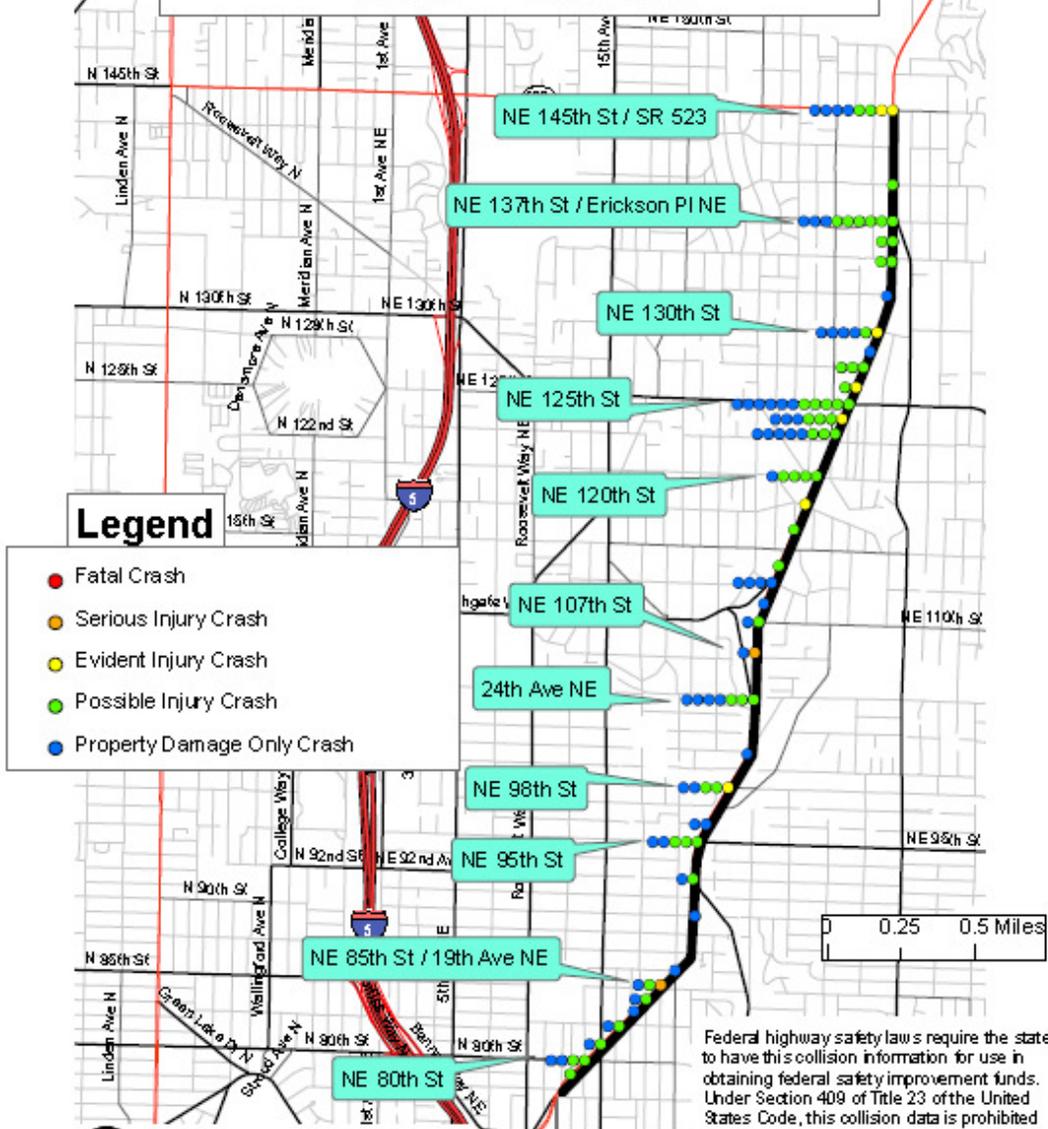
12





Drivers with Inattention or Distraction State Route 522 / Lake City Way 1/1/07 - 12/31/11

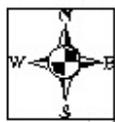
13



Legend

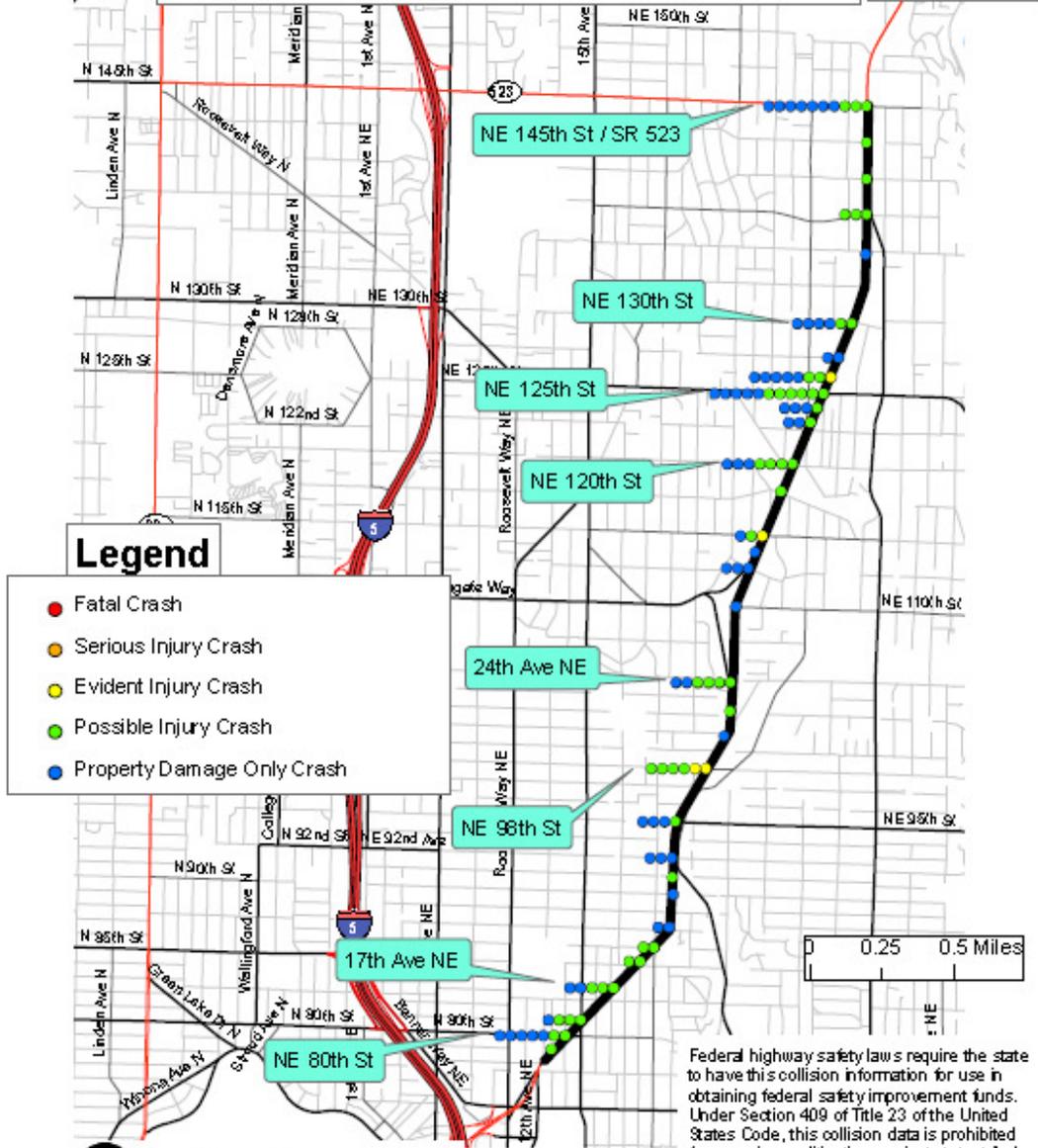
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Drivers who Follow Too Close State Route 522 / Lake City Way 1/1/07 - 12/31/11

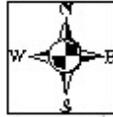
14



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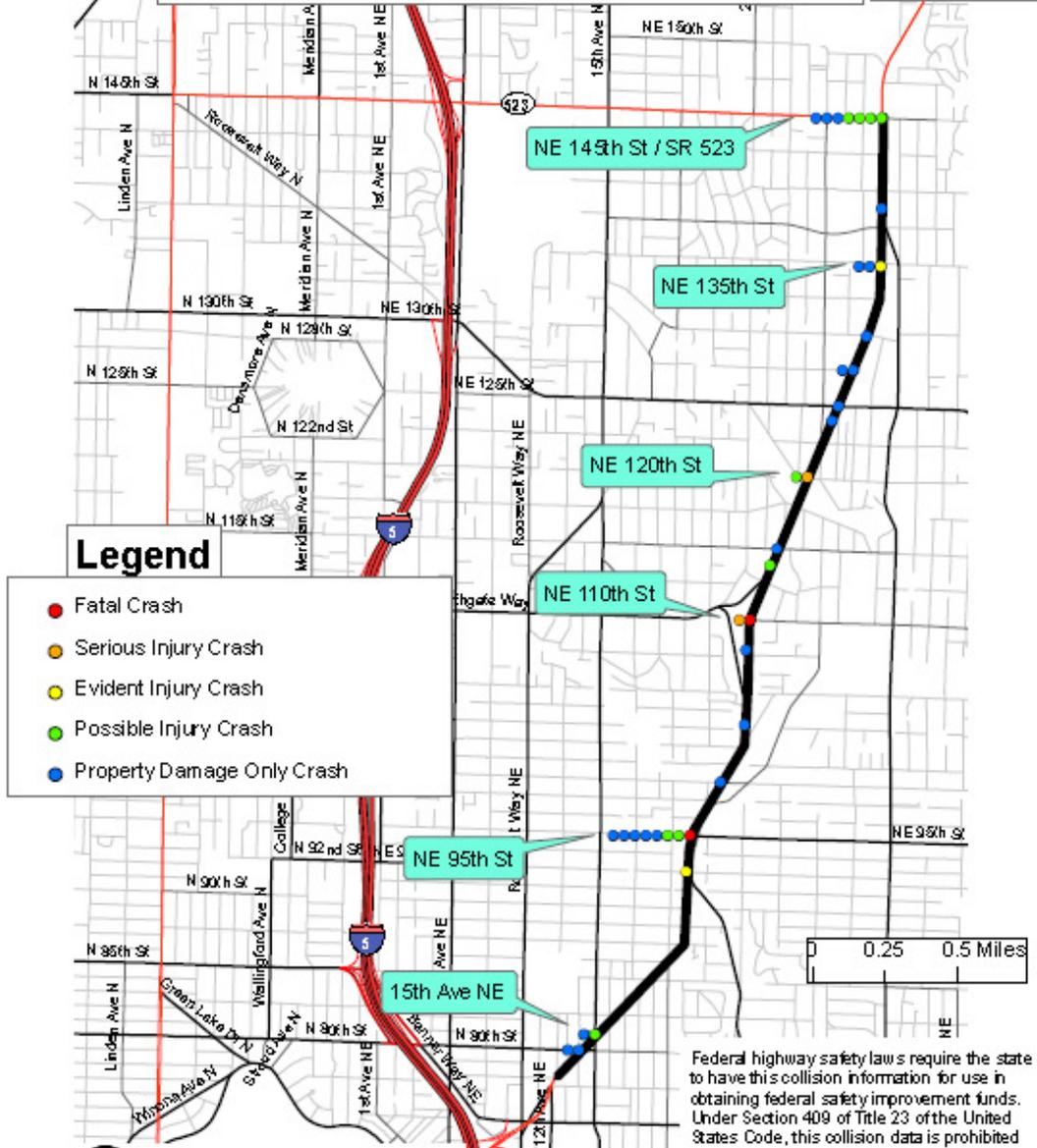
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Drivers who Speed State Route 522 / Lake City Way 1/1/07 - 12/31/11

16

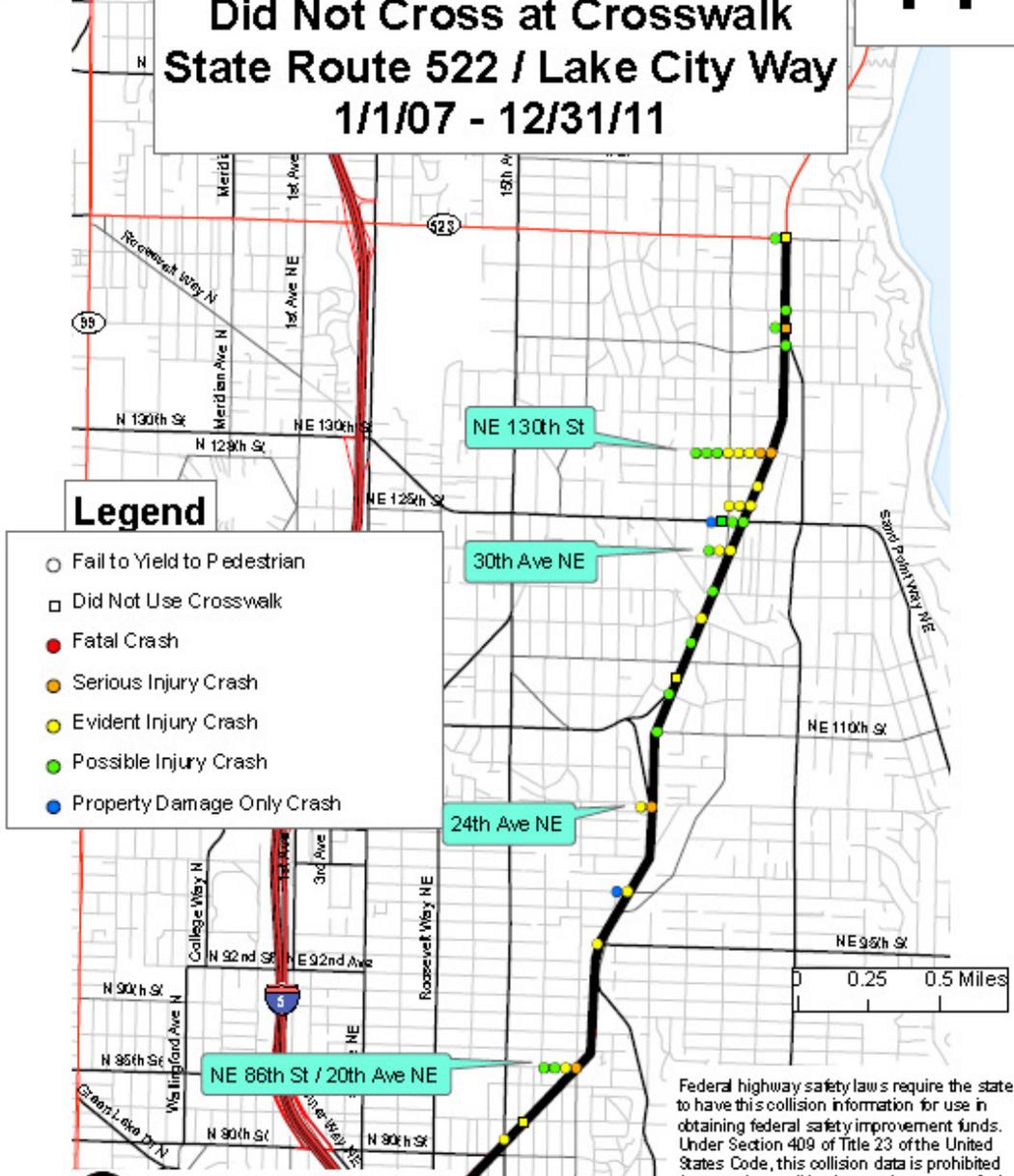
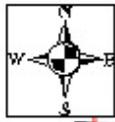


Legend

- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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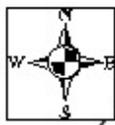
Drivers who Fail to Yield to Ped or Pedestrians who Did Not Cross at Crosswalk State Route 522 / Lake City Way 1/1/07 - 12/31/11



Legend

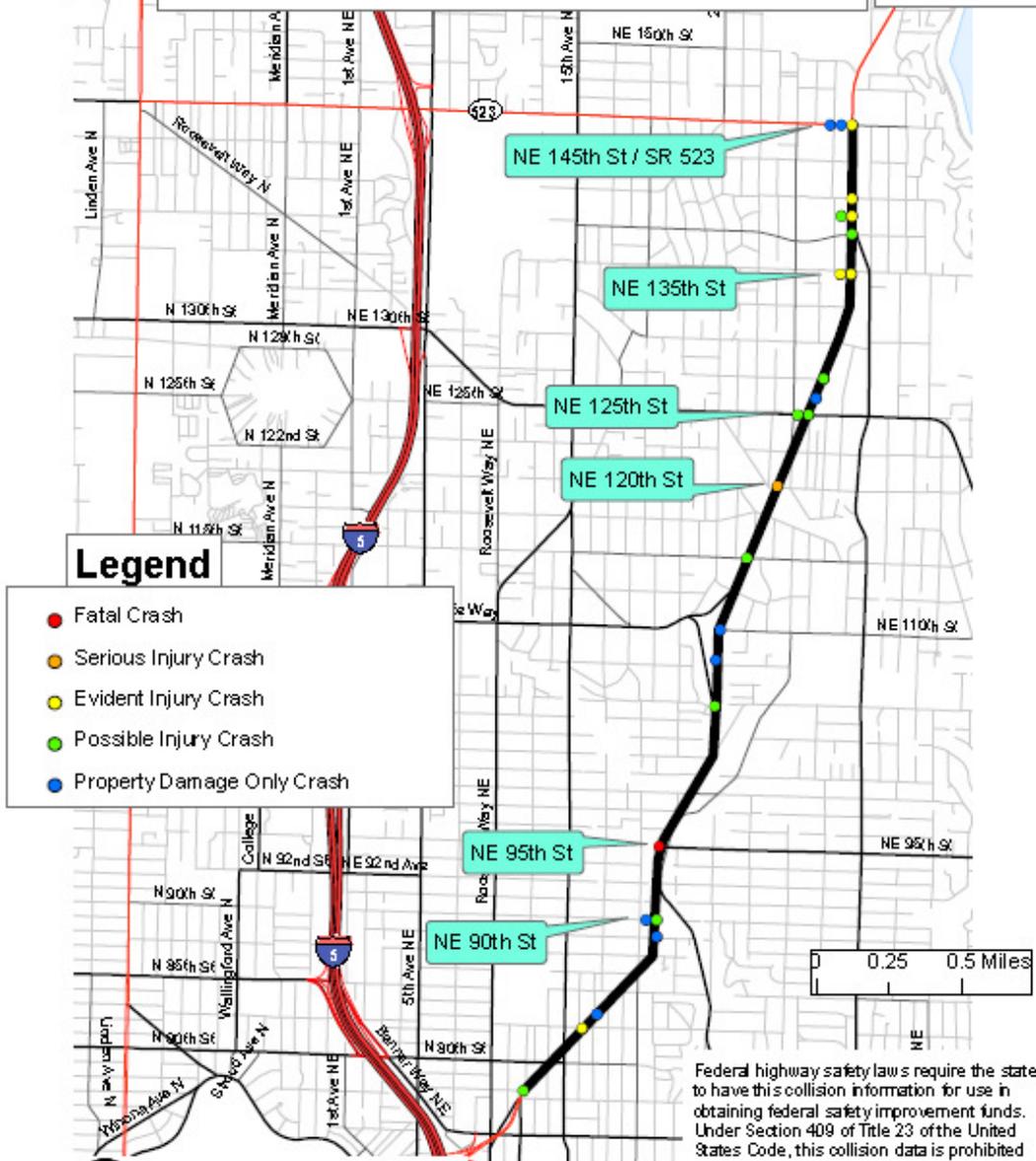
- Fail to Yield to Pedestrian
- Did Not Use Crosswalk
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Drivers with DUI State Route 522 / Lake City Way 1/1/07 - 12/31/11

19



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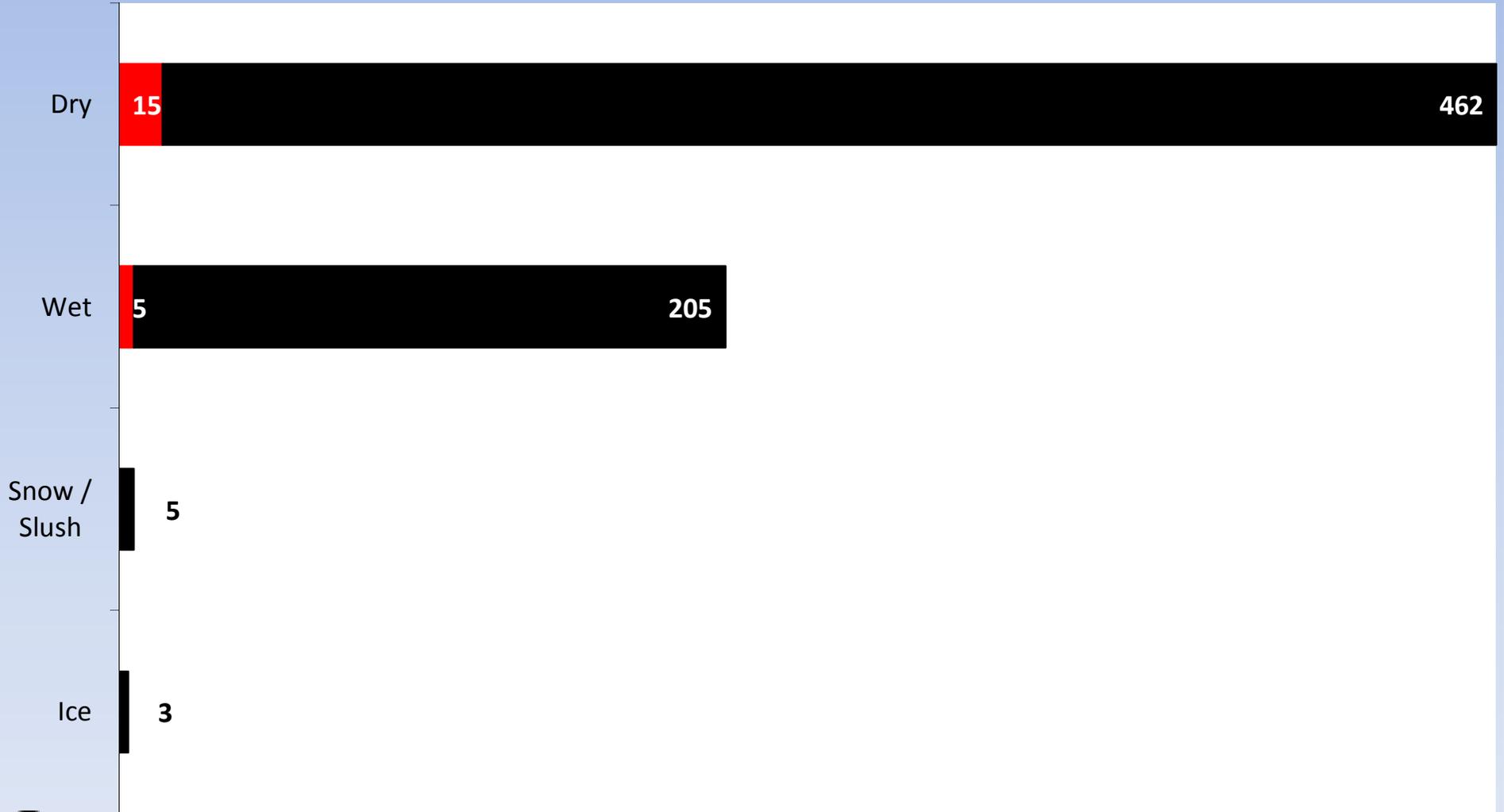
Roadway Surface Conditions

State Route 522 / Lake City Way

1/1/07 to 12/31/11

20

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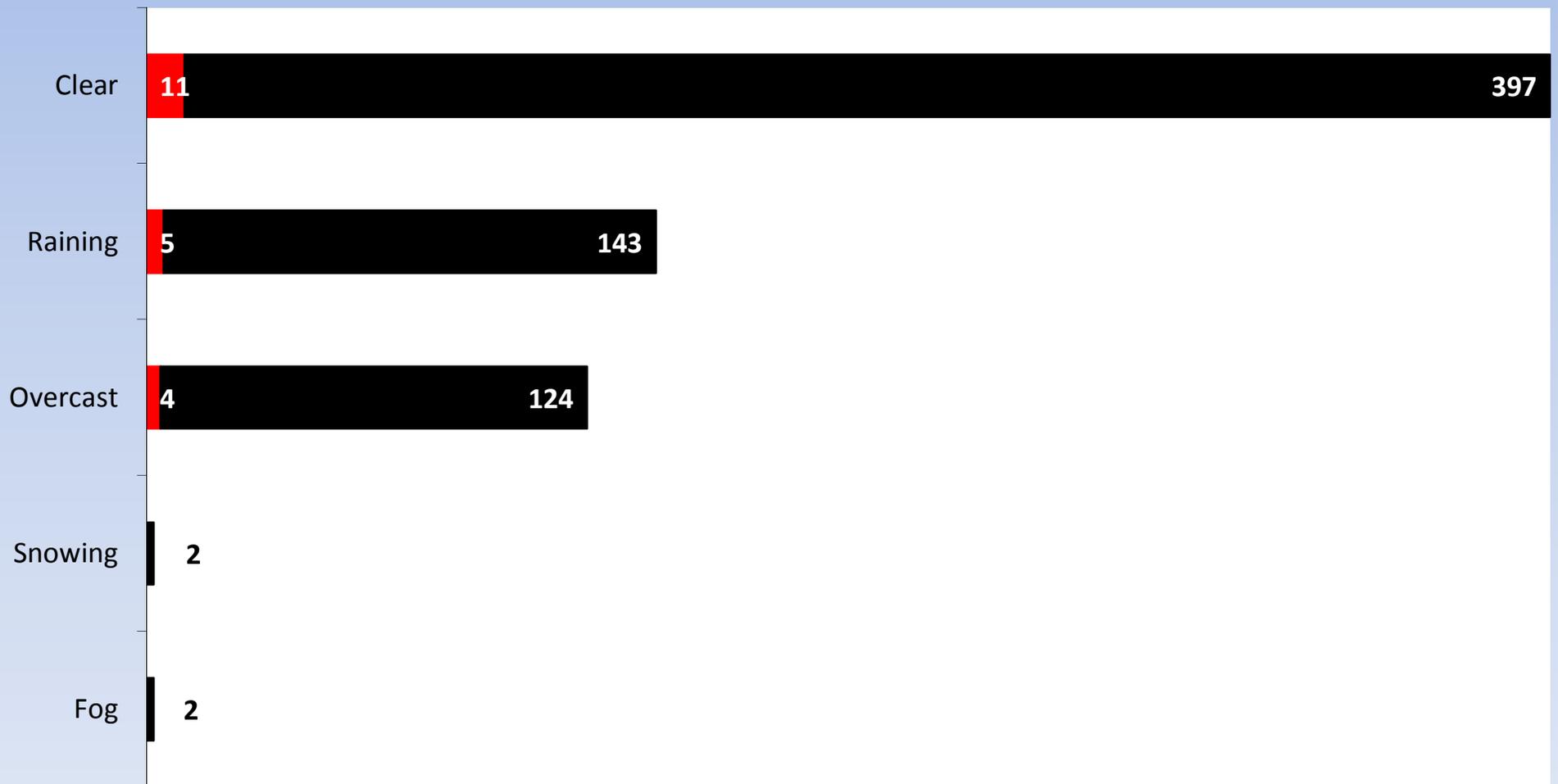
Weather Conditions

State Route 522 / Lake City Way

1/1/07 to 12/31/11

22

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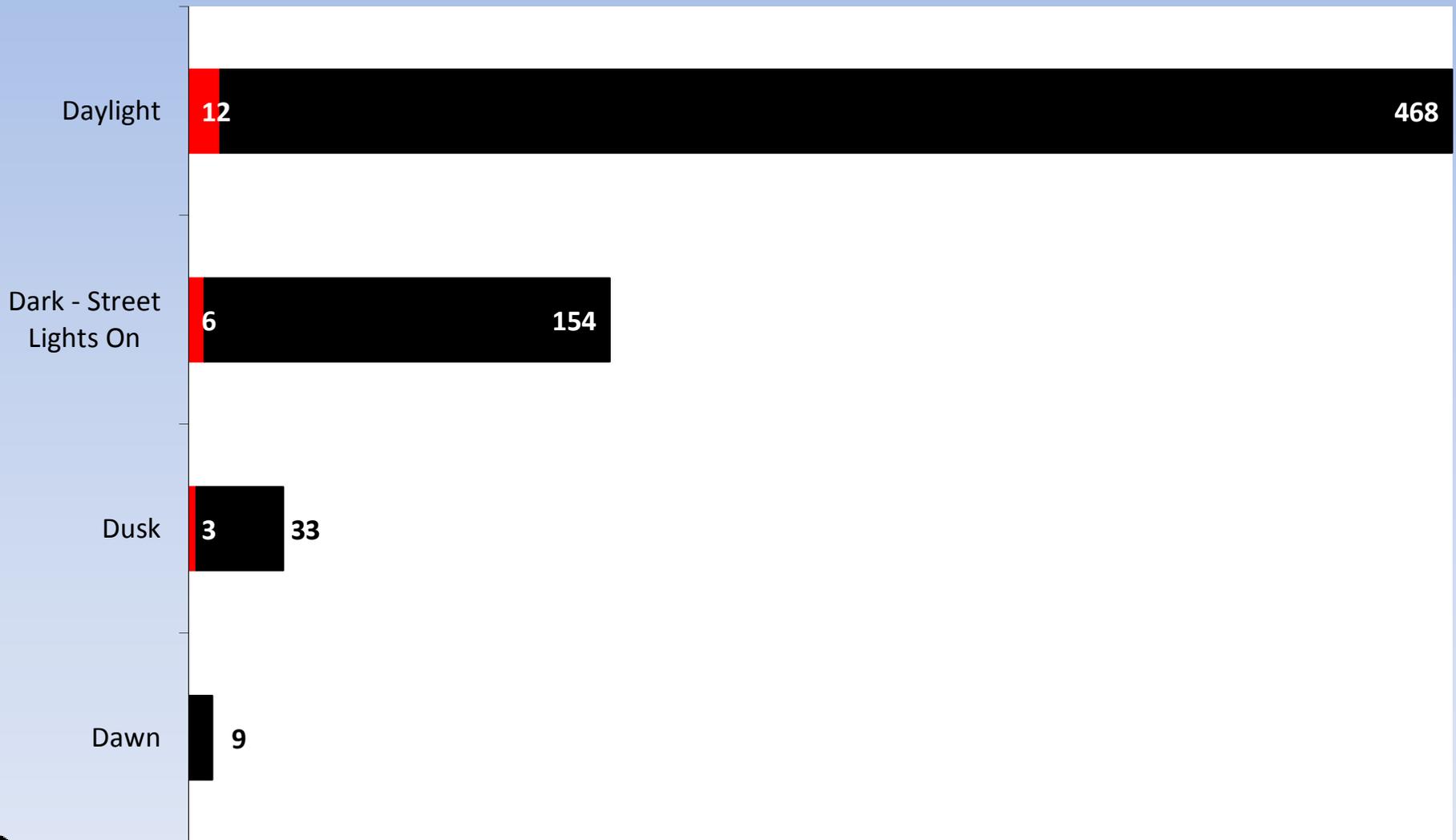
Light Conditions

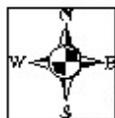
State Route 522 / Lake City Way

1/1/07 to 12/31/11

23

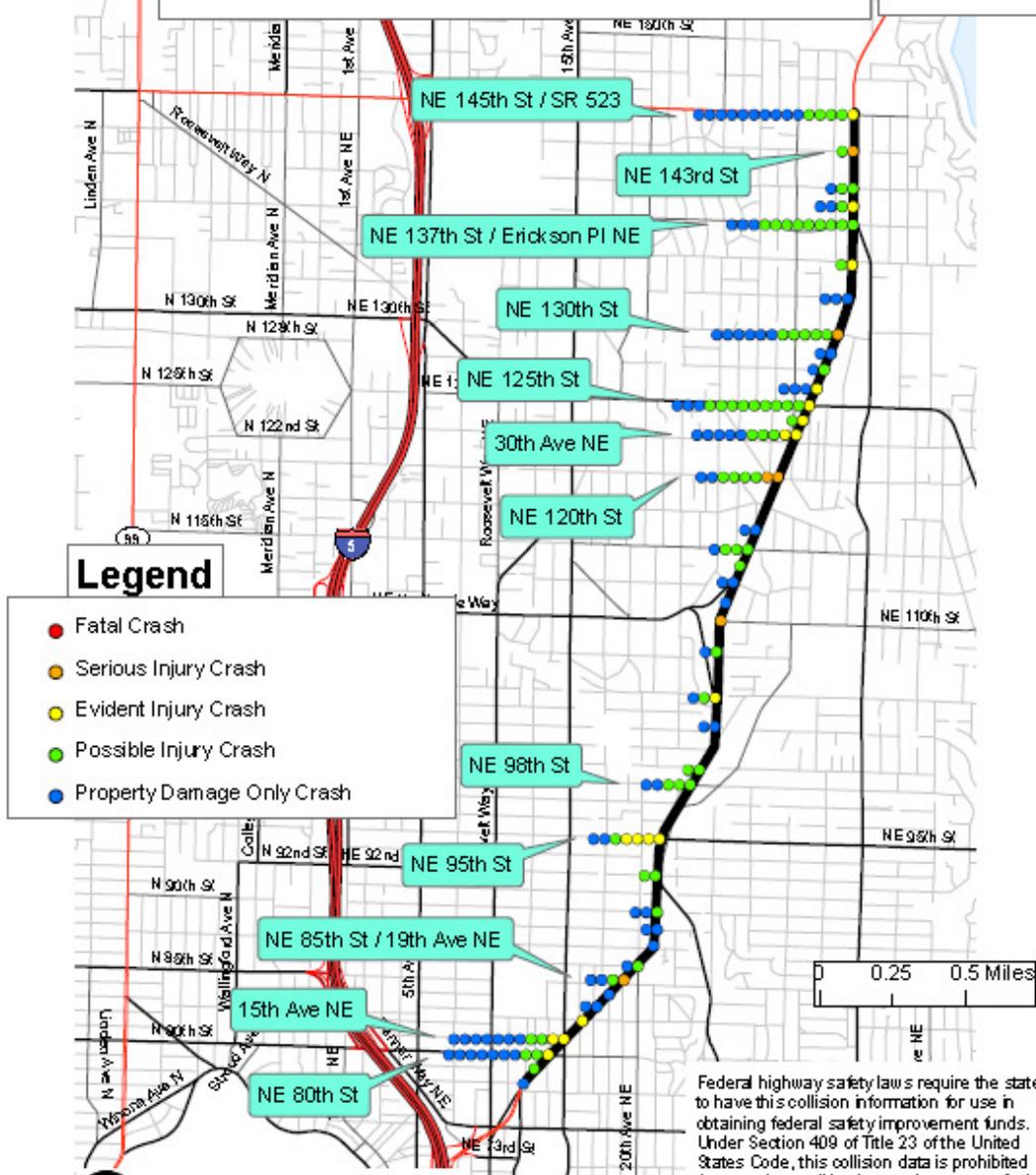
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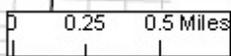
Hours of Darkness Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

24

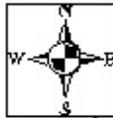


Legend

- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

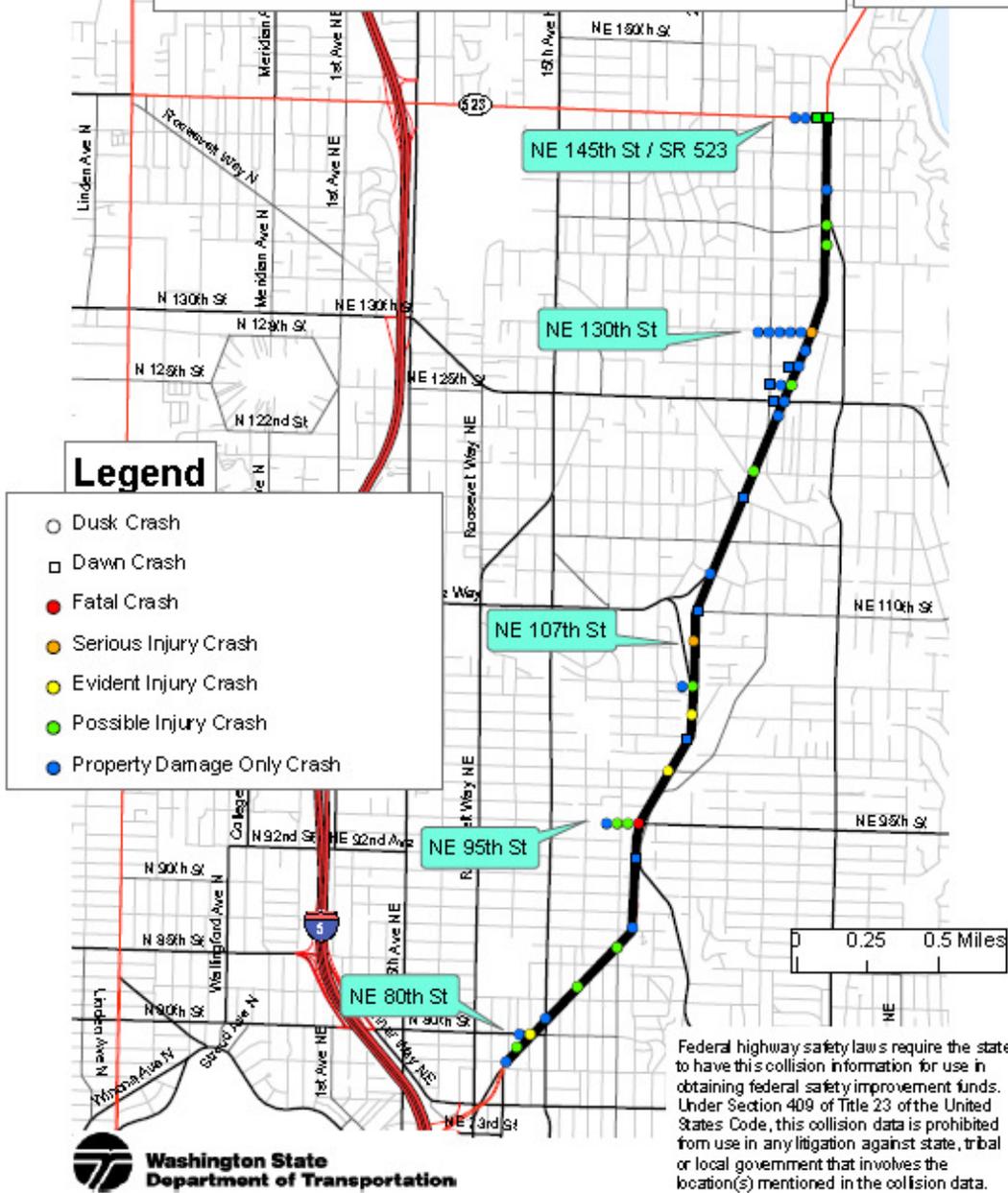


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Dawn & Dusk Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

25



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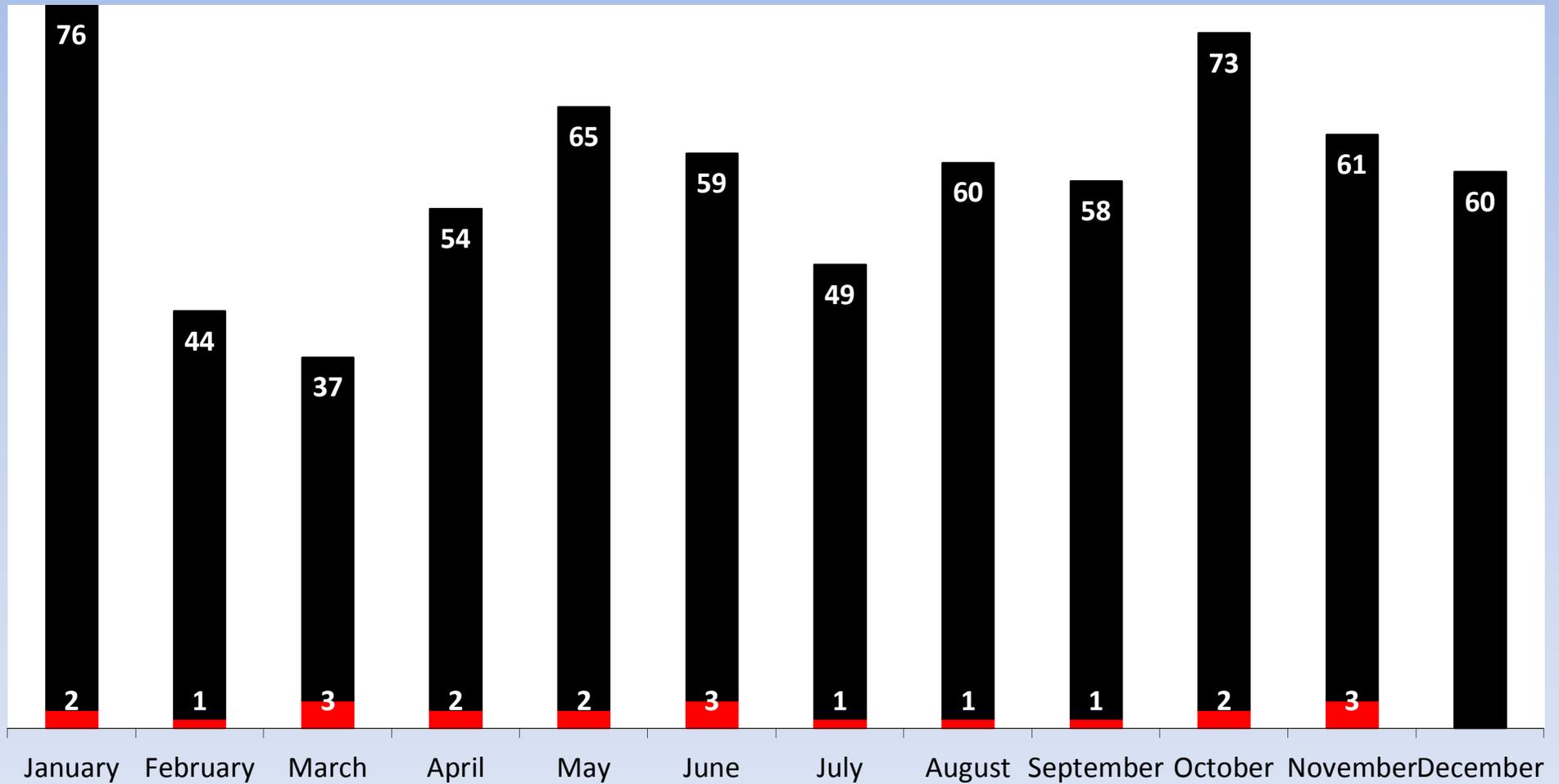
Crashes by Month

State Route 522 / Lake City Way

1/1/07 to 12/31/11

26

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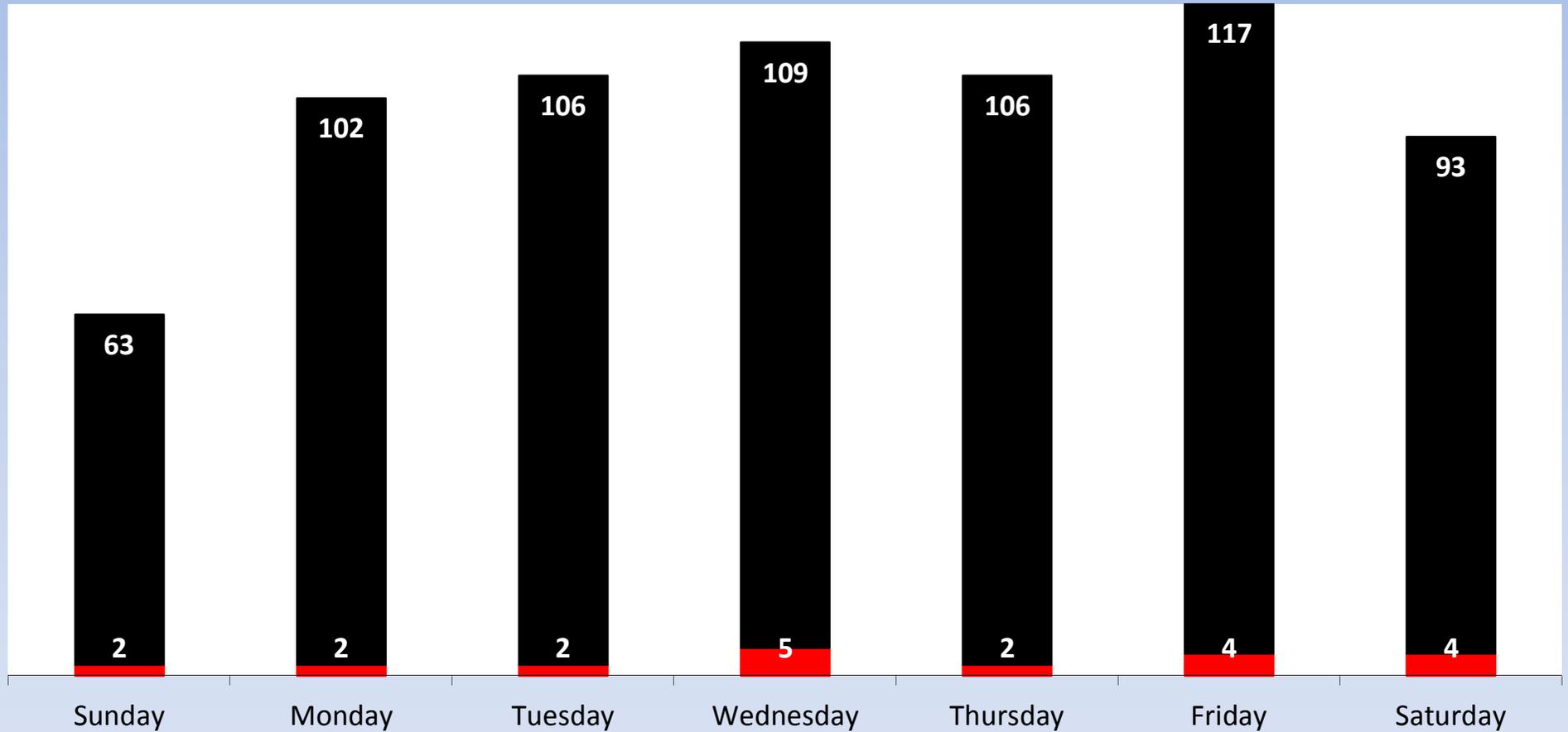
Crashes by Day of Week

State Route 522 / Lake City Way

1/1/07 to 12/31/11

27

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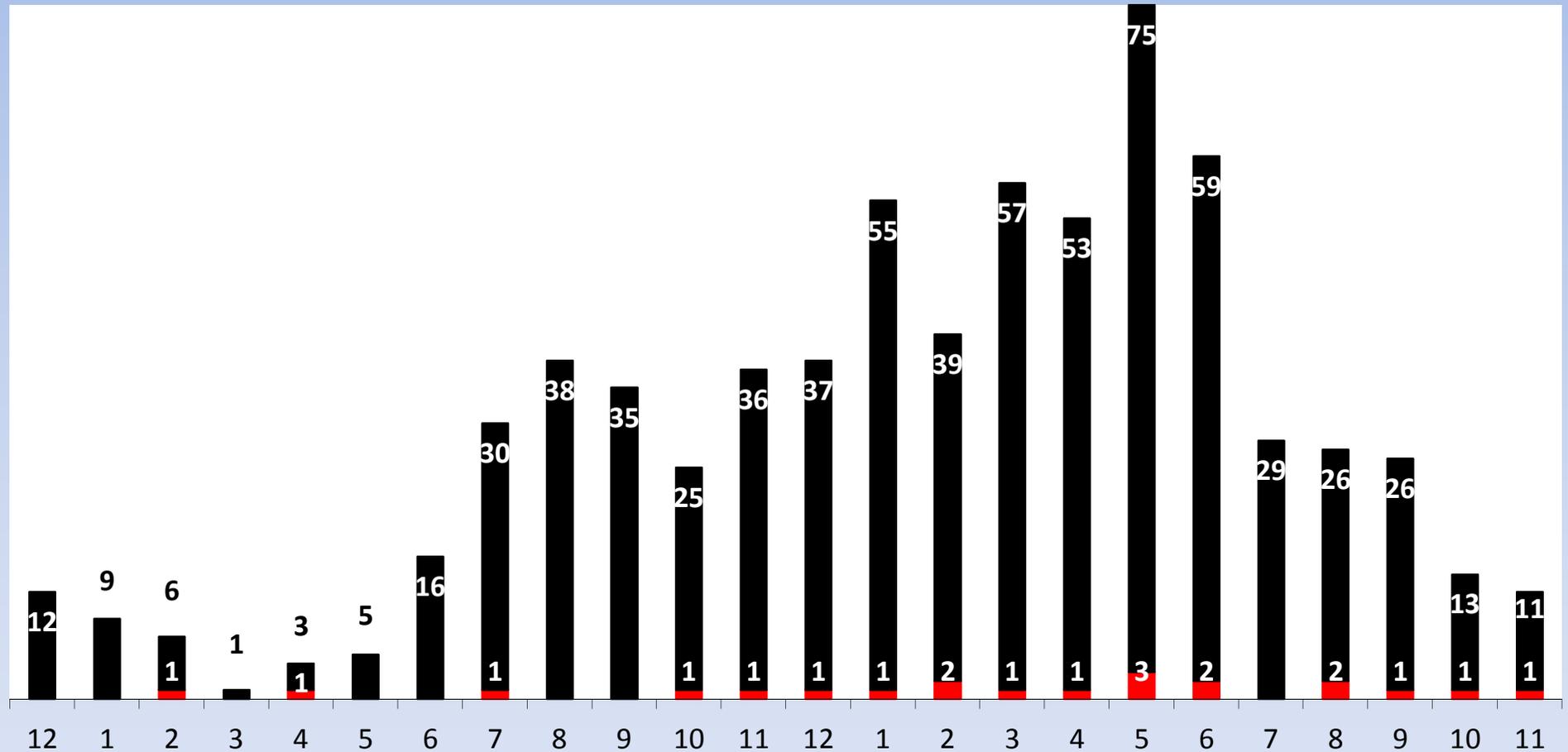
Crashes by Hour of Day

State Route 522 / Lake City Way

1/1/07 to 12/31/11

28

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**Washington State
Department of Transportation**

■ Non-Fatal/Serious Crashes ■ Fatal/Serious Crashes

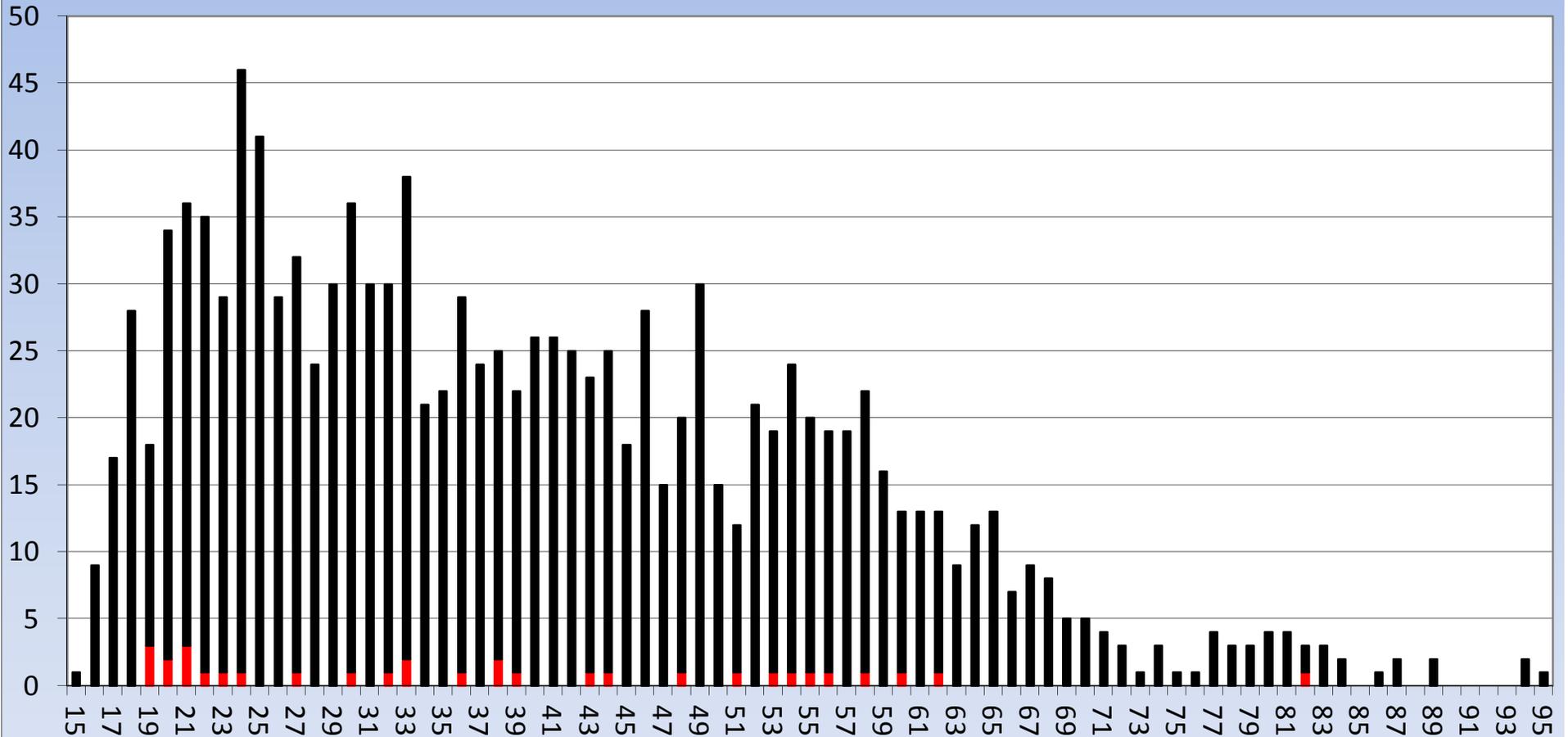
Age of Drivers

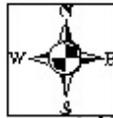
State Route 522 / Lake City Way

1/1/07 to 12/31/11

29

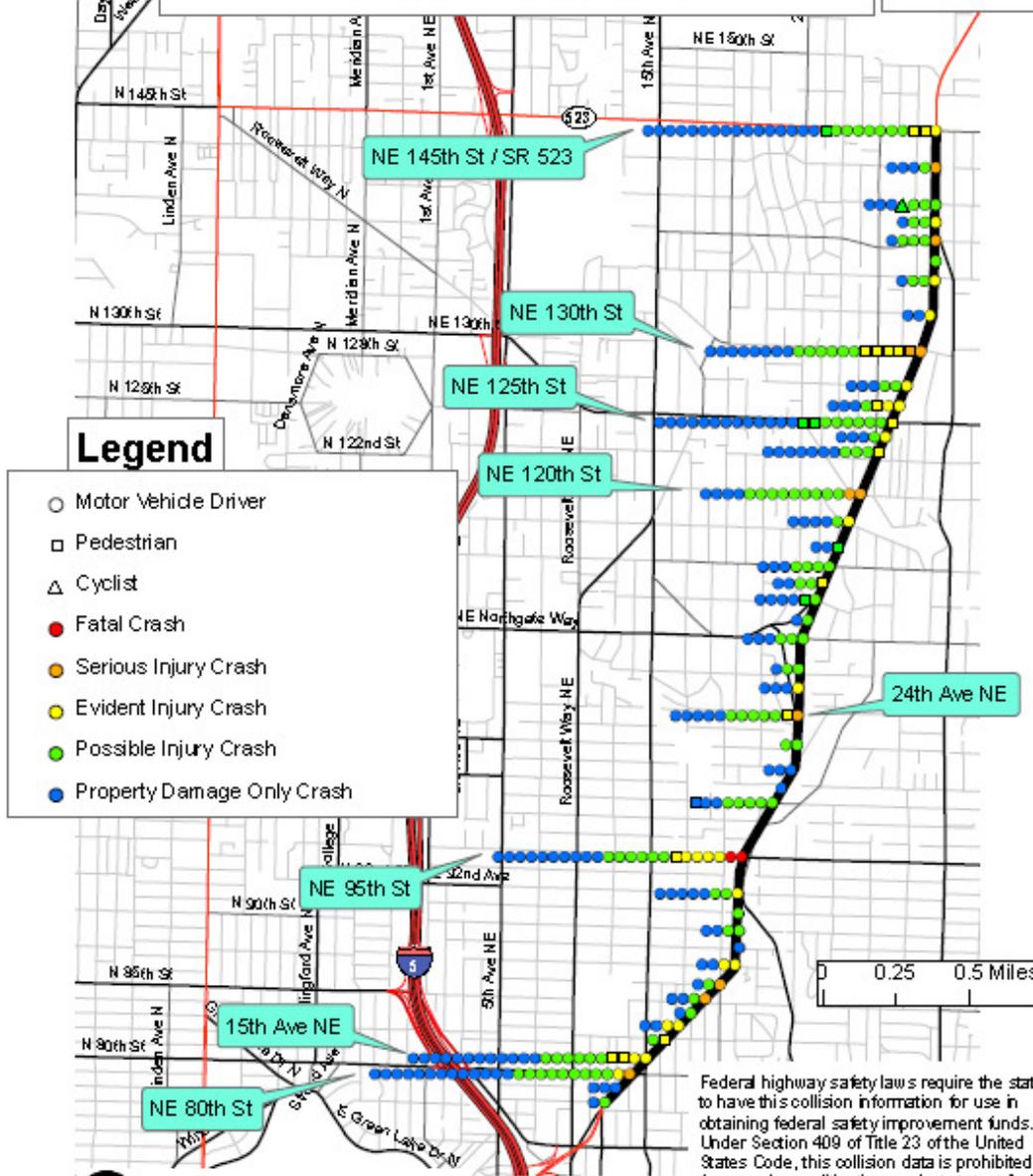
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Drivers 25 & Under in Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

30



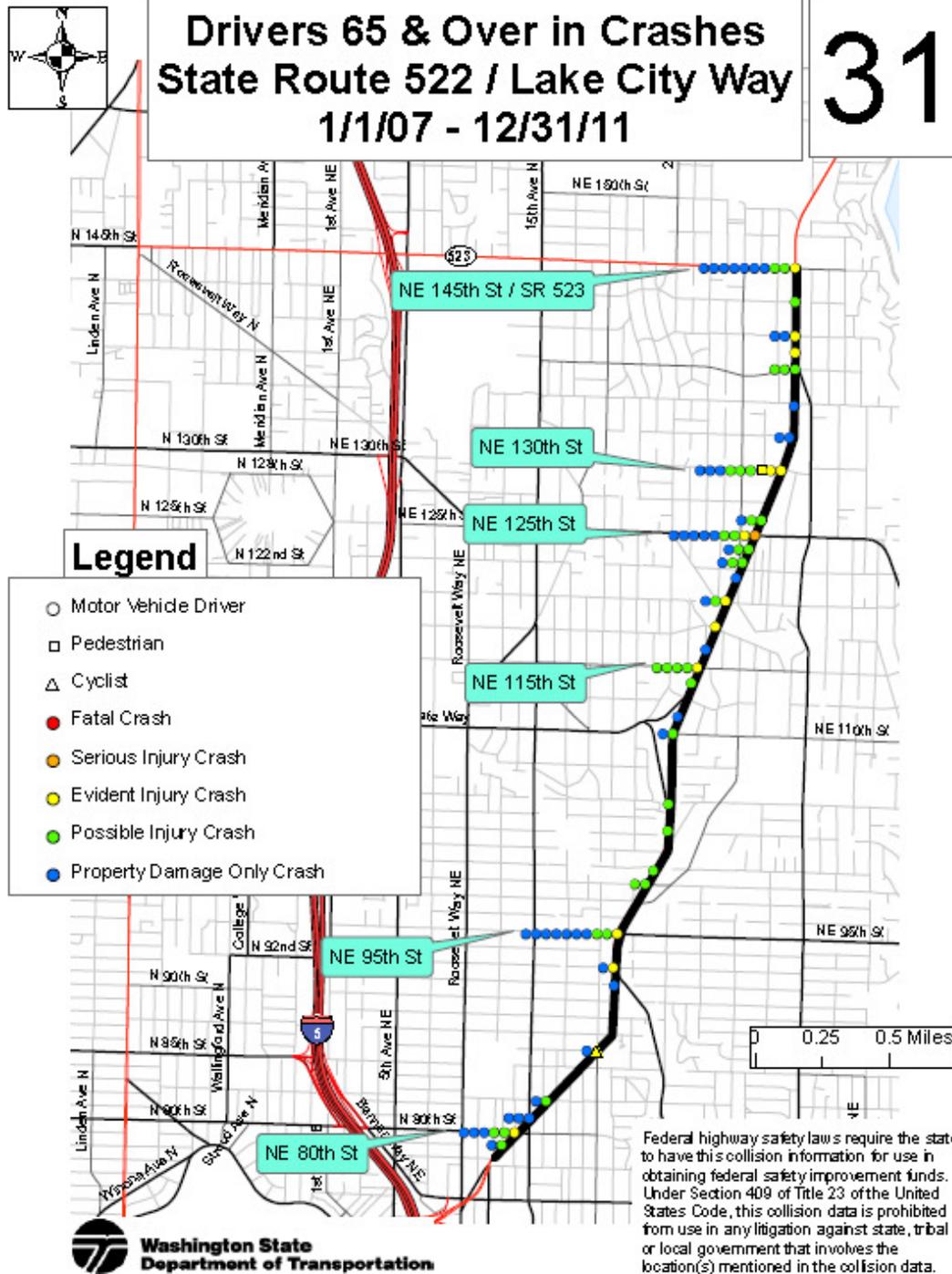
Legend

- Motor Vehicle Driver
- Pedestrian
- △ Cyclist
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Drivers 65 & Over in Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

31



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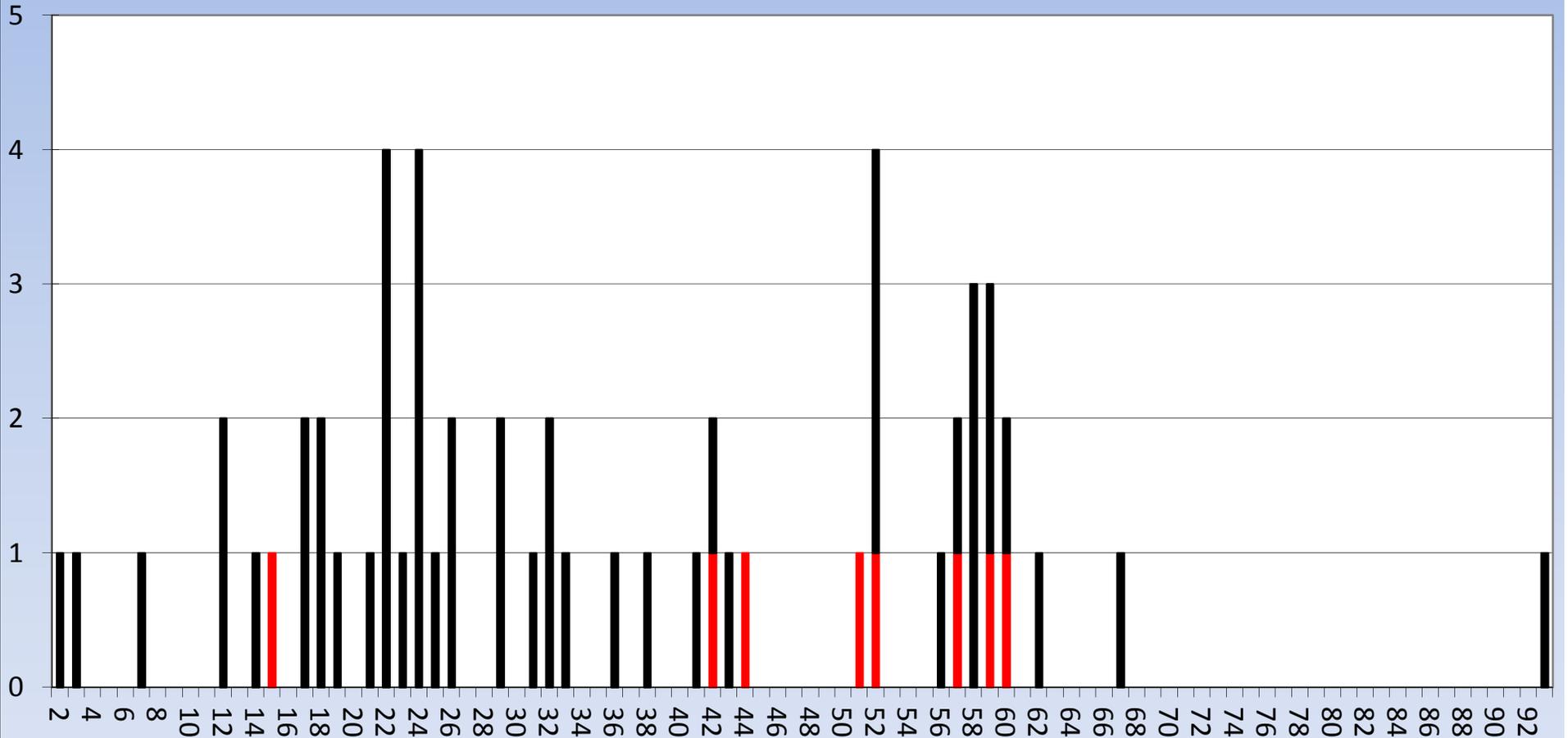
Age of Pedestrians/Cyclists

State Route 522 / Lake City Way

1/1/07 to 12/31/11

32

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**Washington State
Department of Transportation**

■ Non-Fatal/Serious Crashes ■ Fatal/Serious Crashes

Pedestrian Clothing Type

State Route 522 / Lake City Way

1/1/07 to 12/31/11

33

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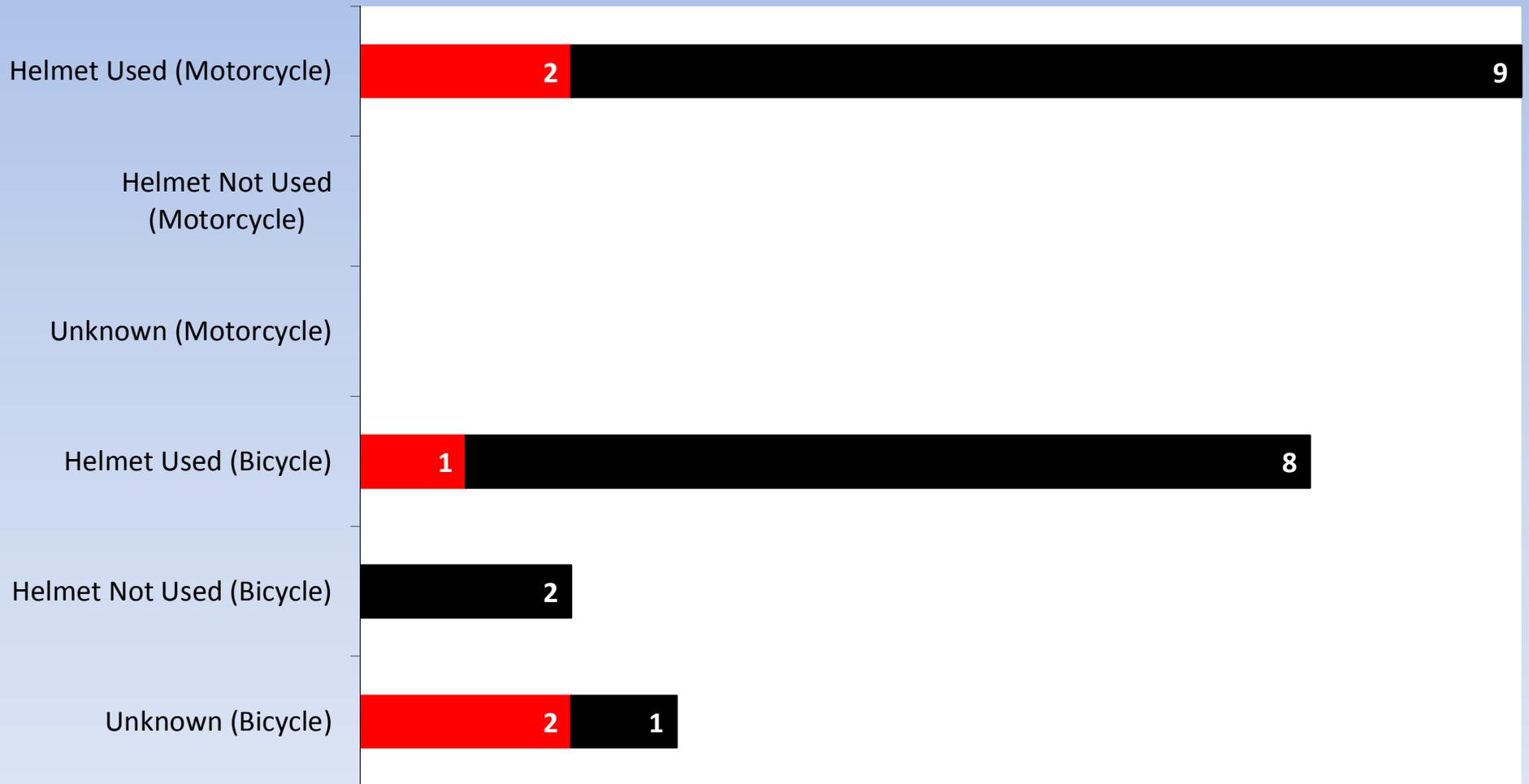
Motorcycle/Bicycle Helmet Use

State Route 522 / Lake City Way

1/1/07 to 12/31/11

34

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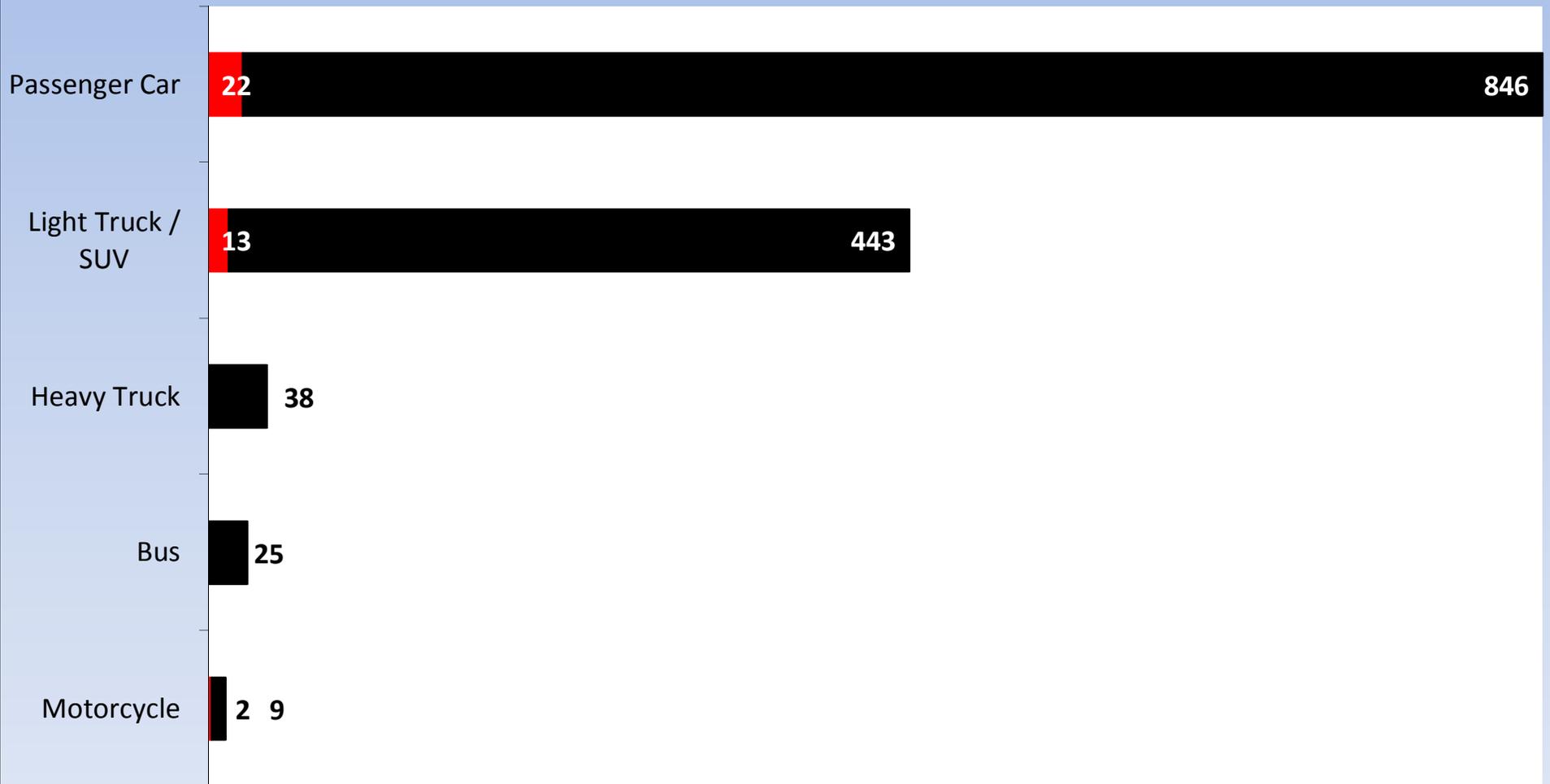
Type of Vehicle

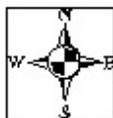
State Route 522 / Lake City Way

1/1/07 to 12/31/11

35

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Trucks, Buses, and Motorcycles in Crashes State Route 522 / Lake City Way 1/1/07 - 12/31/11

36

Legend

- Heavy Truck Crash
- Bus Crash
- △ Motorcycle Crash
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash



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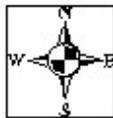
Use of Seat Belt / Child Seat (# of Occupants)

37

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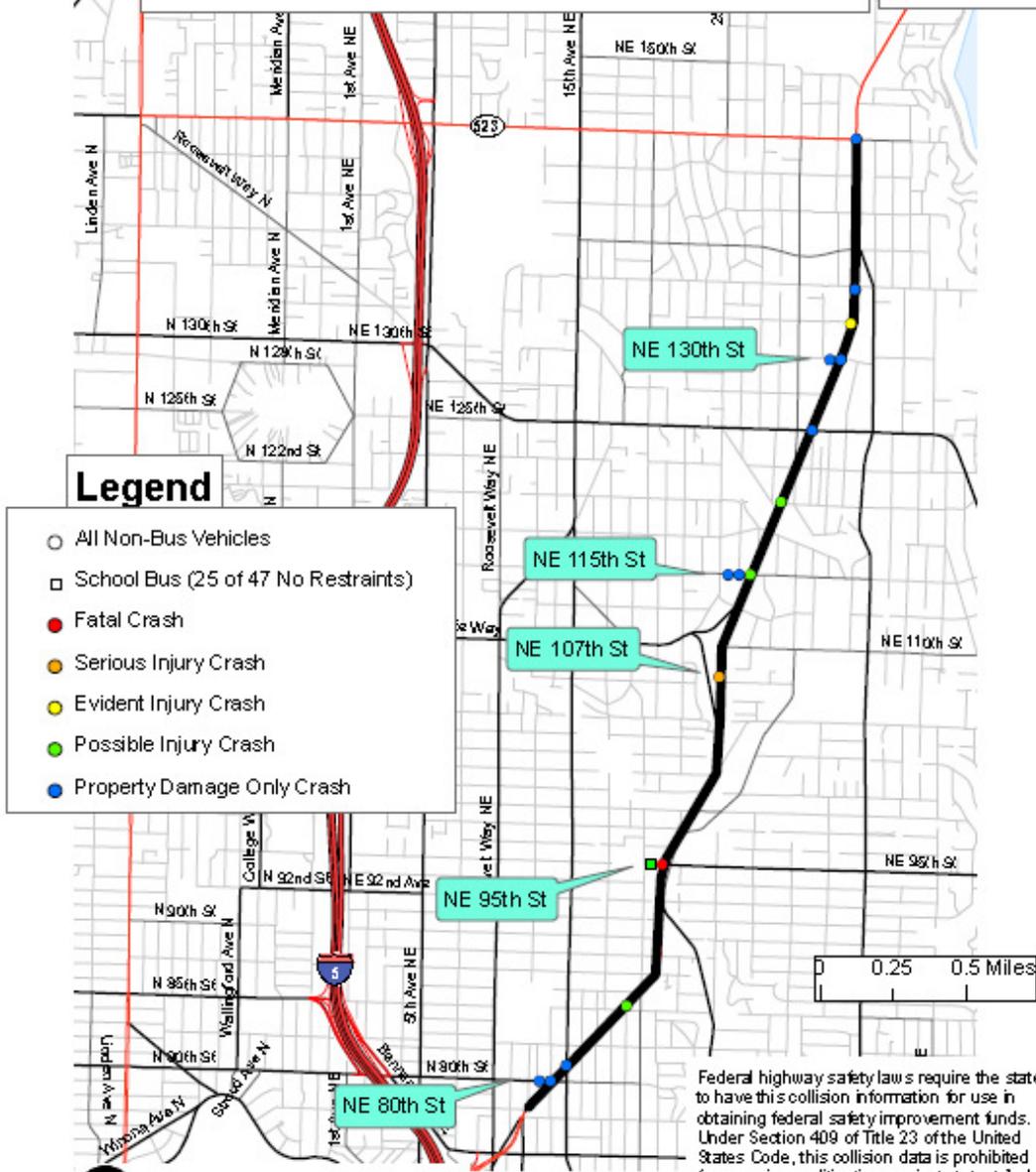
State Route 522 / Lake City Way 1/1/07 to 12/31/11





Crashes Involving No Restraints State Route 522 / Lake City Way 1/1/07 - 12/31/11

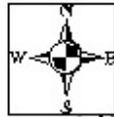
38



Legend

- All Non-Bus Vehicles
- School Bus (25 of 47 No Restraints)
- Fatal Crash
- Serious Injury Crash
- Evident Injury Crash
- Possible Injury Crash
- Property Damage Only Crash

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Average Daily Traffic State Route 522 / Lake City Way 2011

39



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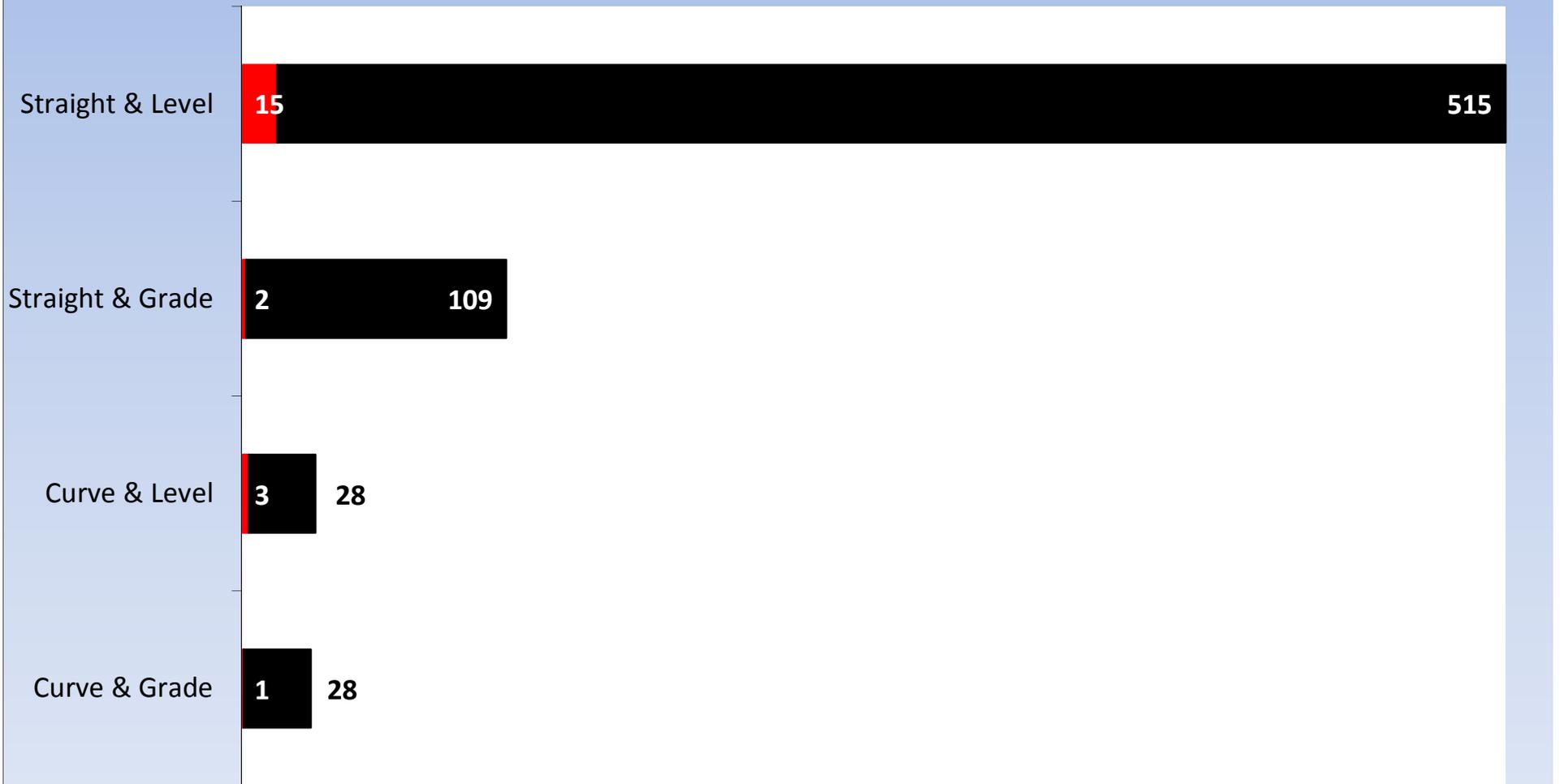
Roadway Characteristics

State Route 522 / Lake City Way

1/1/07 to 12/31/11

40

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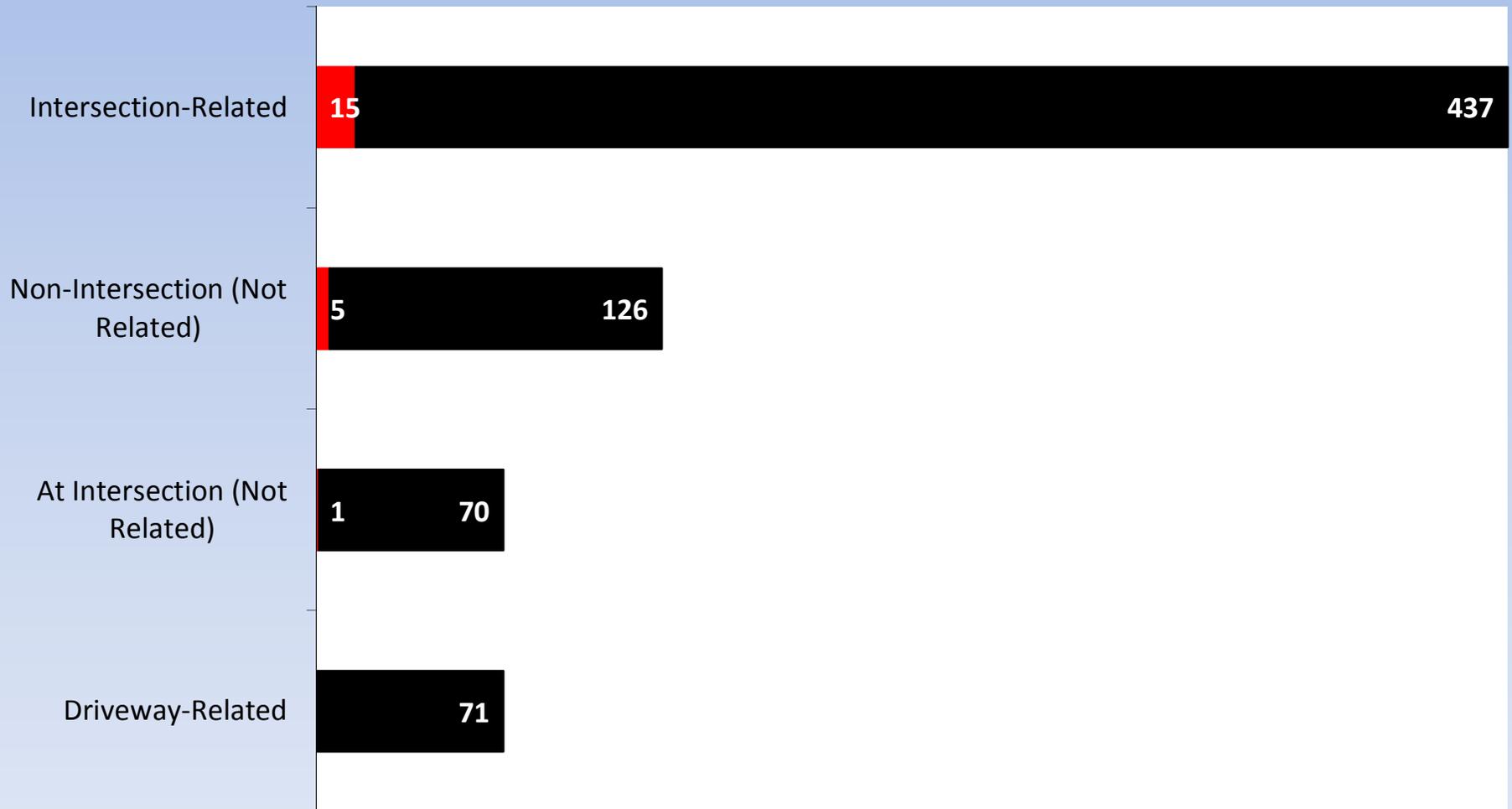
Junction Relationship

State Route 522 / Lake City Way

1/1/07 to 12/31/11

41

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Gender (# of Drivers)

State Route 522 / Lake City Way

1/1/07 to 12/31/11

43

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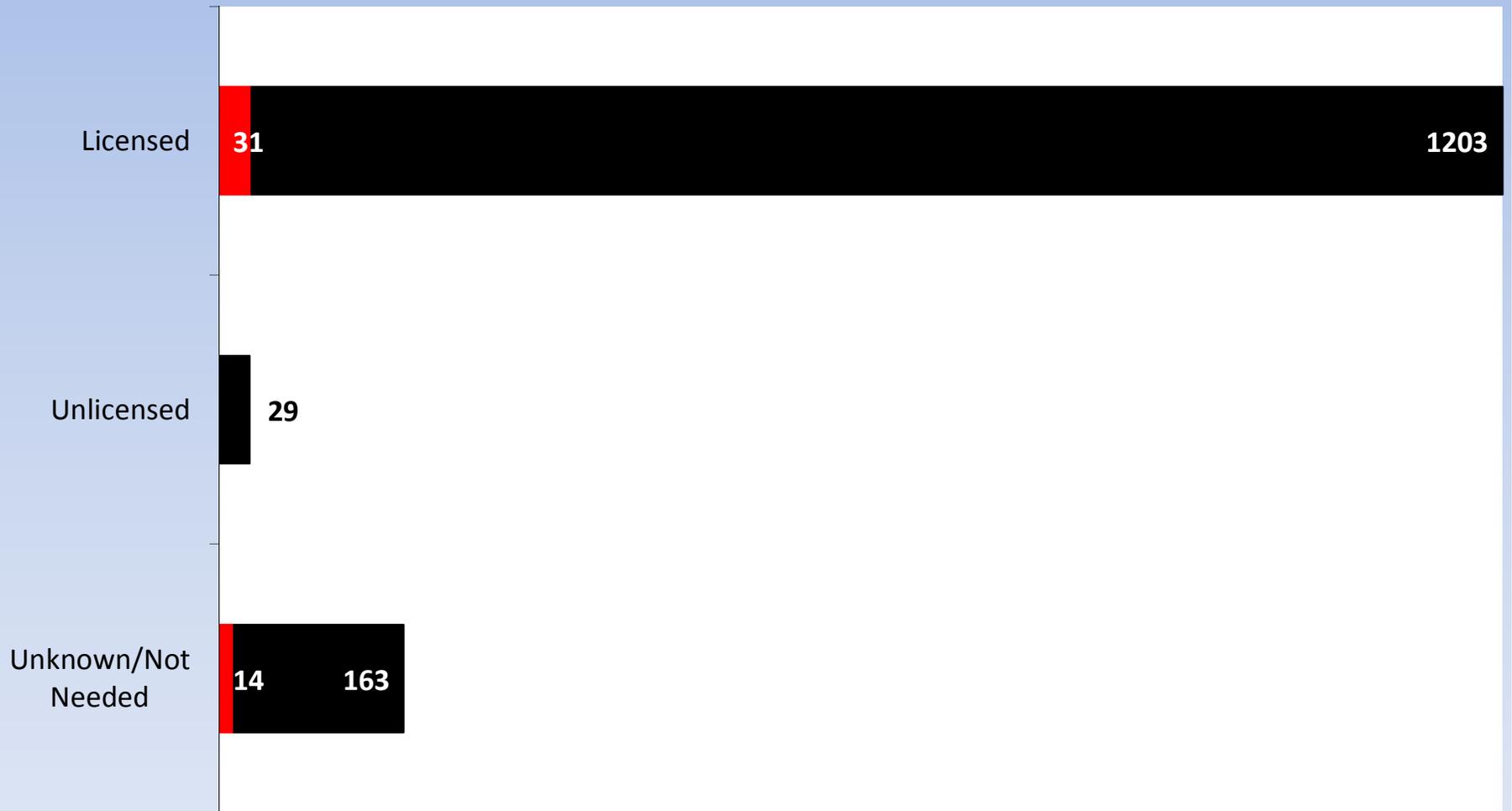
Driver's License Status (# of Drivers)

44

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State Route 522 / Lake City Way

1/1/07 to 12/31/11



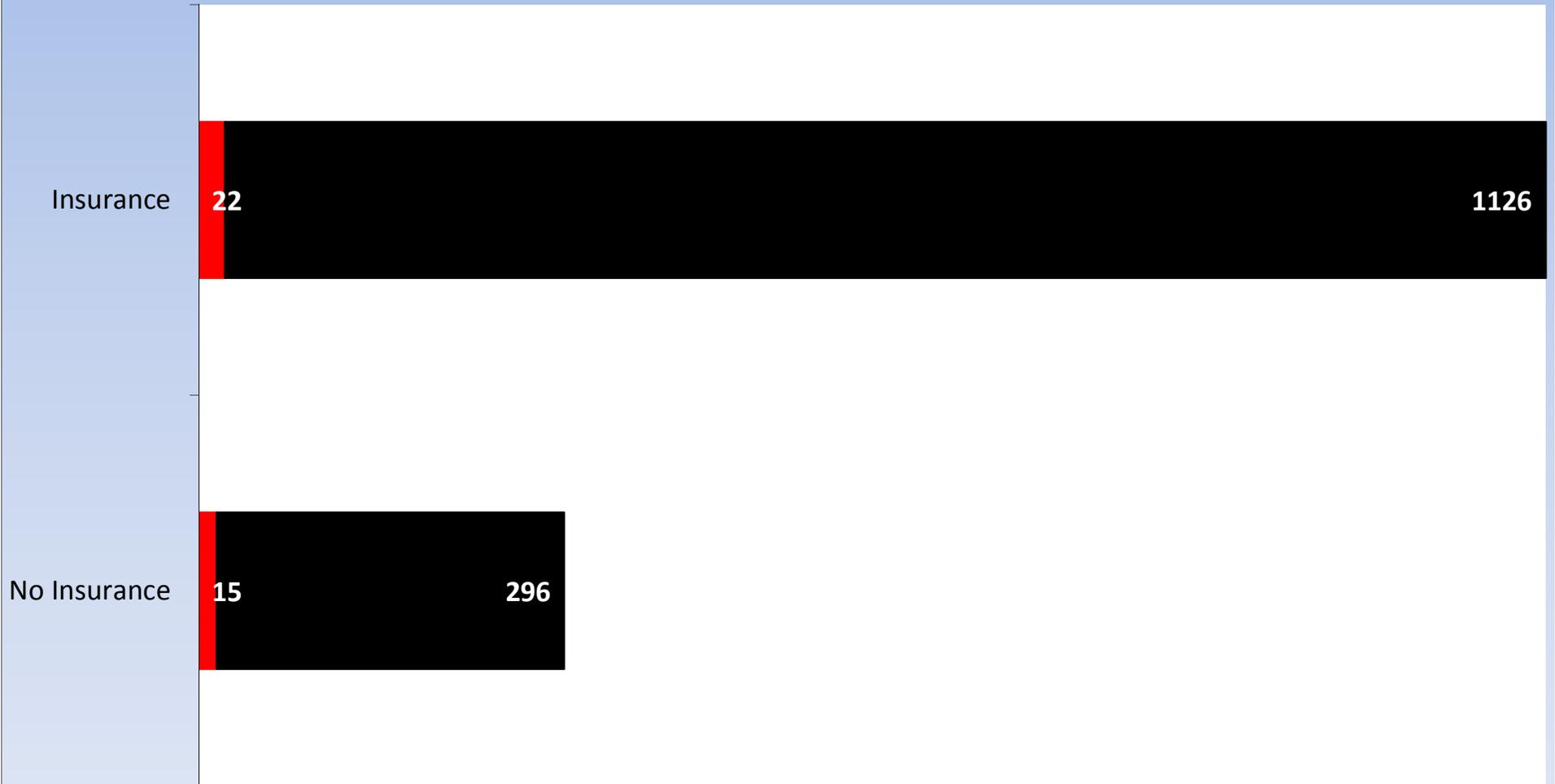
Driver Insurance Status (# of Drivers)

45

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State Route 522 / Lake City Way

1/1/07 to 12/31/11



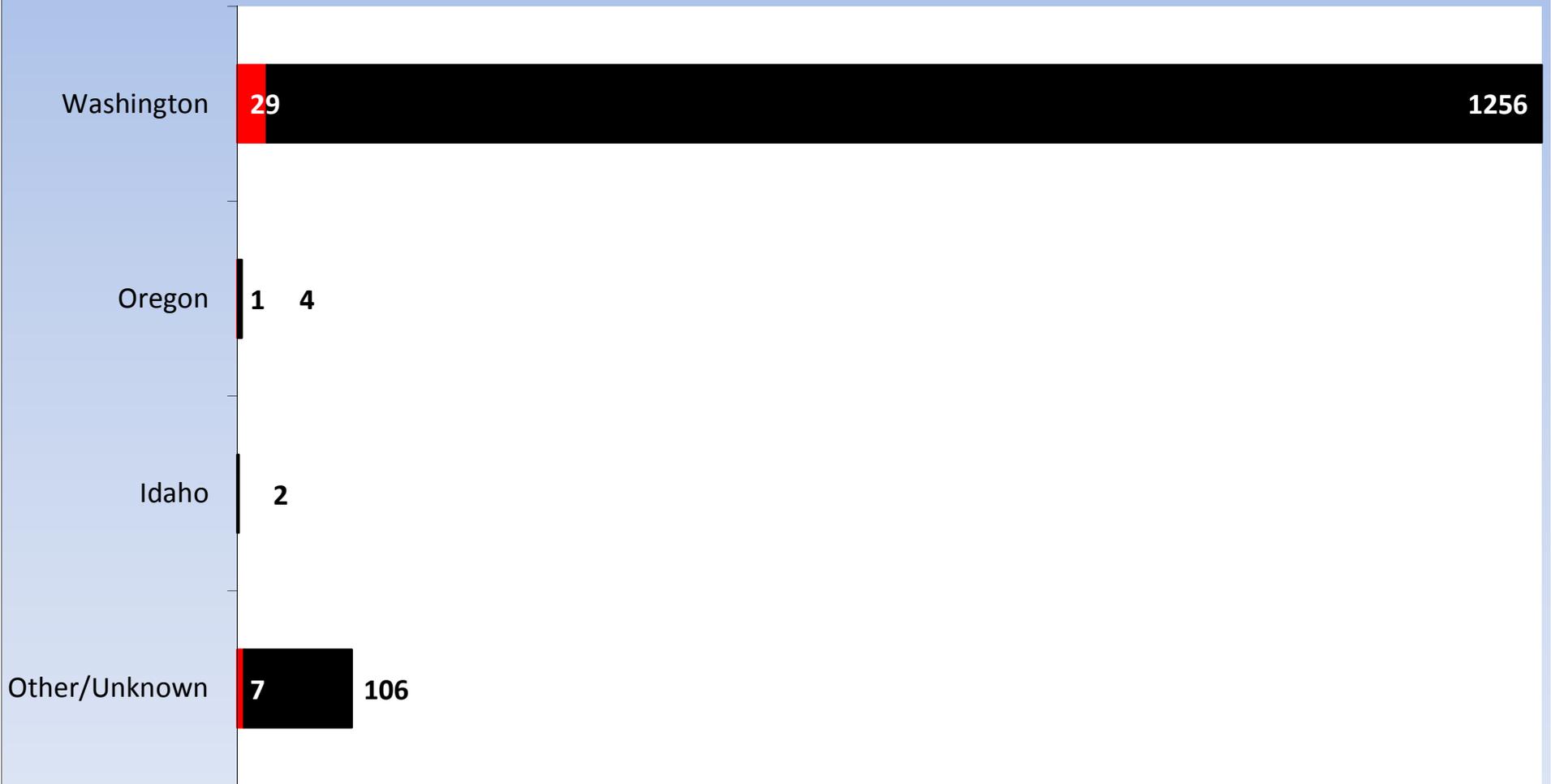
Vehicle Registration State (# of Drivers)

46

Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal, or local government that involves the location(s) mentioned in the collision data.

State Route 522 / Lake City Way

1/1/07 to 12/31/11



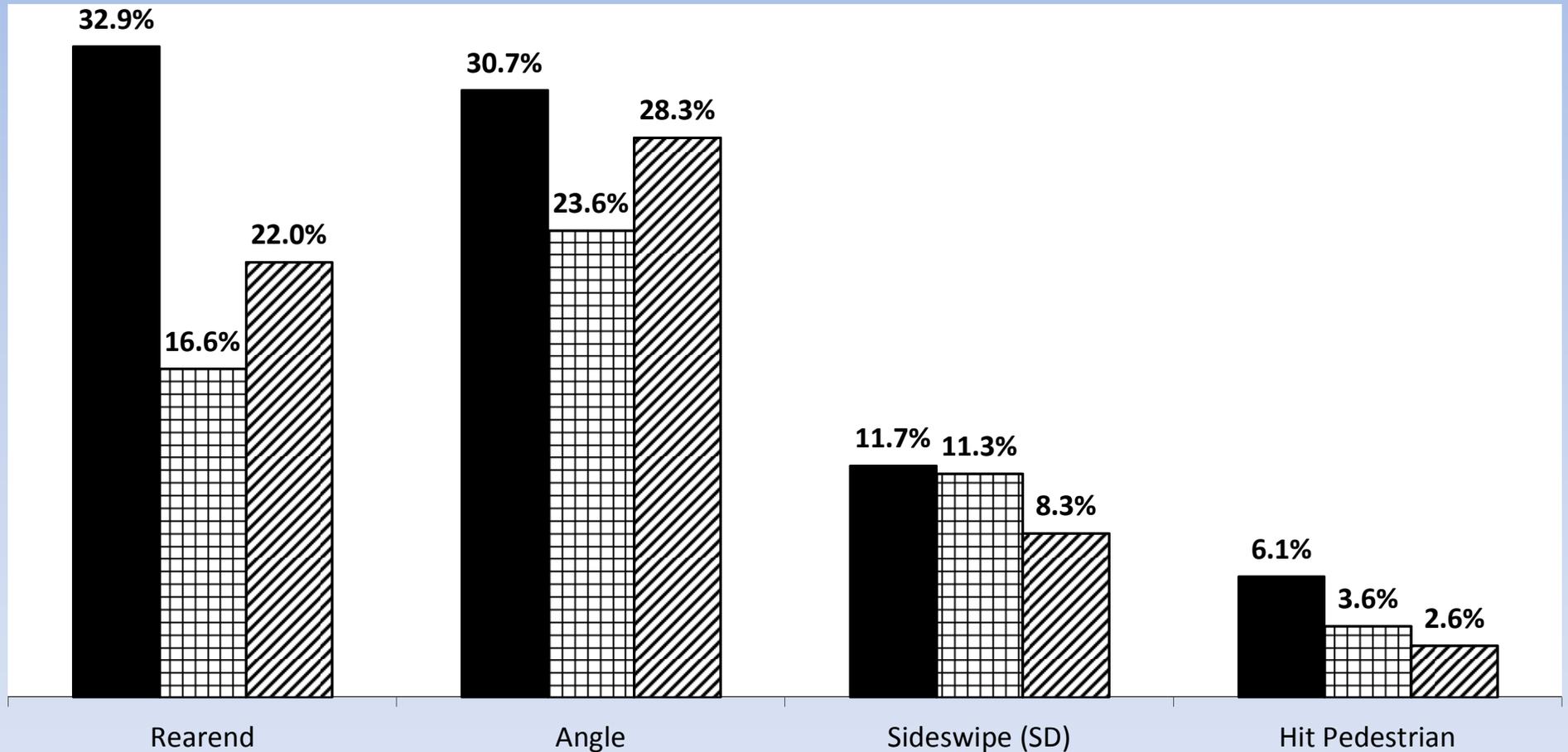
Crash Type Comparison

State Route 522 / Lake City Way

1/1/07 to 12/31/11

47

Federal highway safety laws require the state to have this collision information for use in obtaining federal safety improvement funds. Under Section 409 of Title 23 of the United States Code, this collision data is prohibited from use in any litigation against state, tribal, or local government that involves the location(s) mentioned in the collision data.



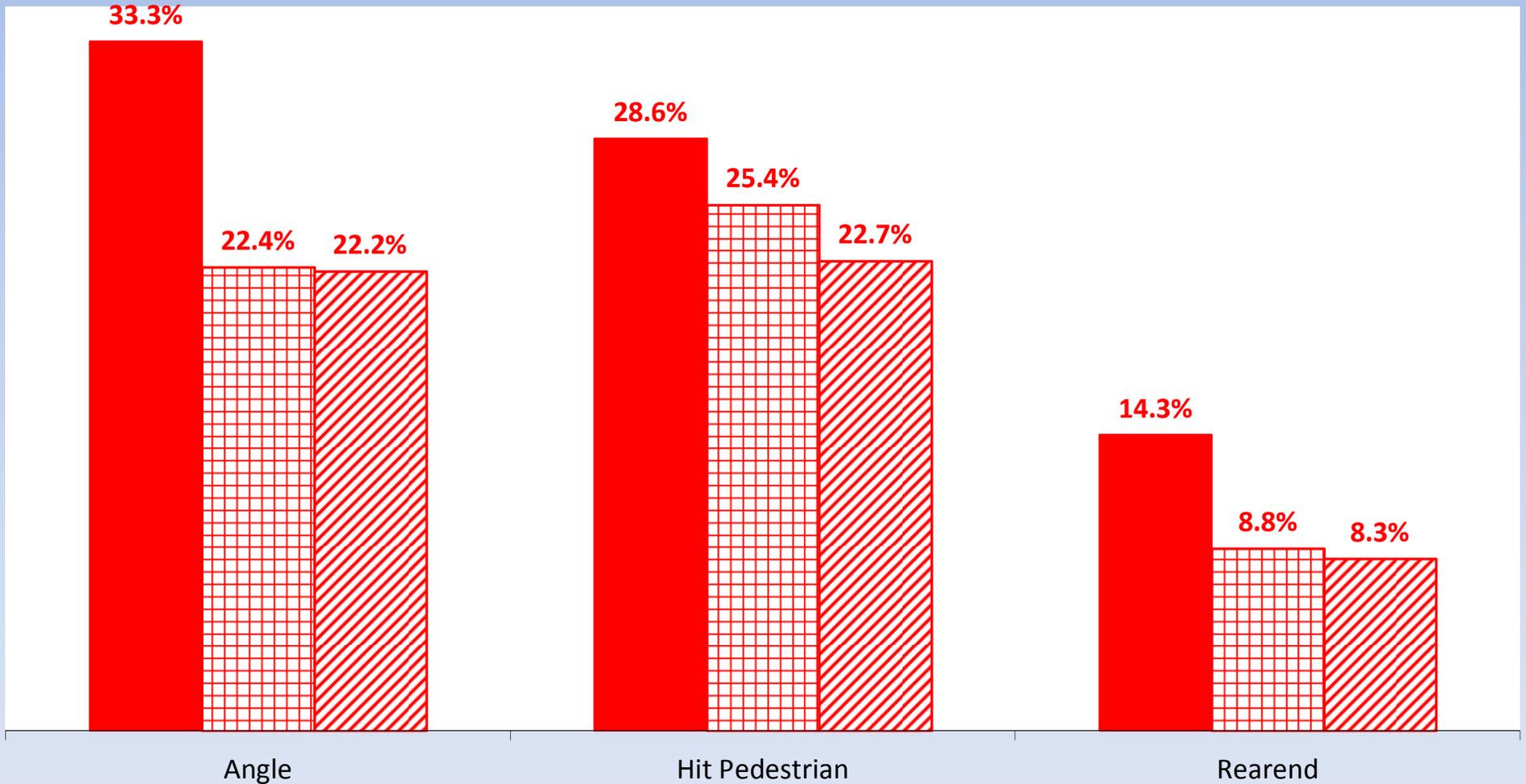
Fatal / Serious Crash Type Comparison

State Route 522 / Lake City Way

1/1/07 to 12/31/11

48

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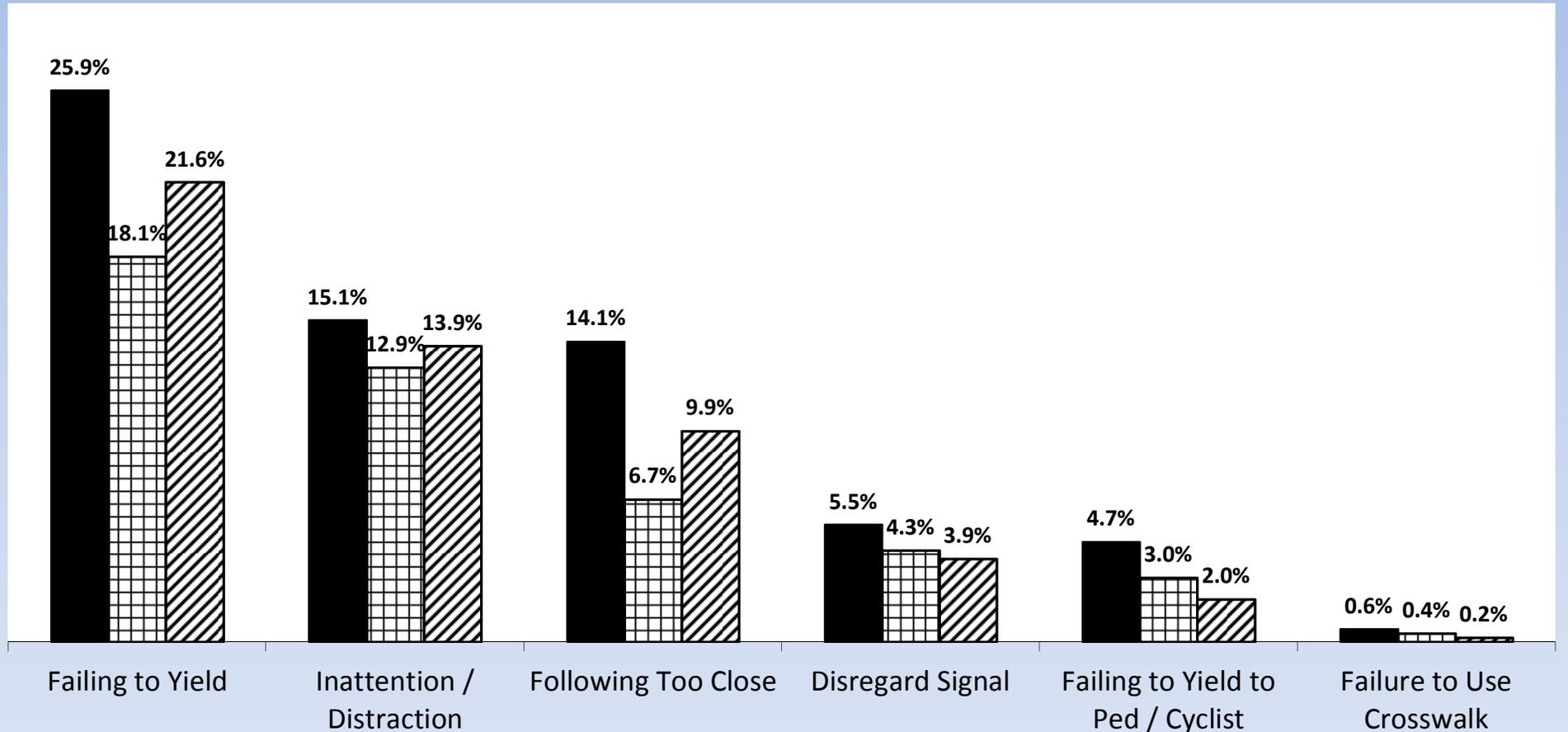
Contributing Circumstances Comparison

State Route 522 / Lake City Way

1/1/07 to 12/31/11

49

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Fatal / Serious Contributing Circumstances Comparison

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State Route 522 / Lake City Way

1/1/07 to 12/31/11

50

