

# Metro Orlando Pedestrian and Bicyclist Fatalities: Crash Types and Characteristics



February 2019

# Data

## 402 Pedestrian Fatalities

- 2011 through 2017
- Excluding parking lots, other non-right-of-way, and limited access highway crashes
- 9% of reported crashes

## 115 bicyclist fatalities

- 2008 through 2017
- <2% of reported crashes



# Guess the Posted Speed

Lee Vista Blvd.,  
Orlando  
Median to Curb = 26 ft.  
Curb to Curb = 99 ft.





# Guess the Posted Speed

Oak Street,  
Bozeman, MT  
Median to Curb = 28 ft.  
Curb to Curb = 88 ft.



# Guess the Posted Speed

US 441,  
Apopka  
Curb to Curb = 62 ft.



# Guess the Posted Speed

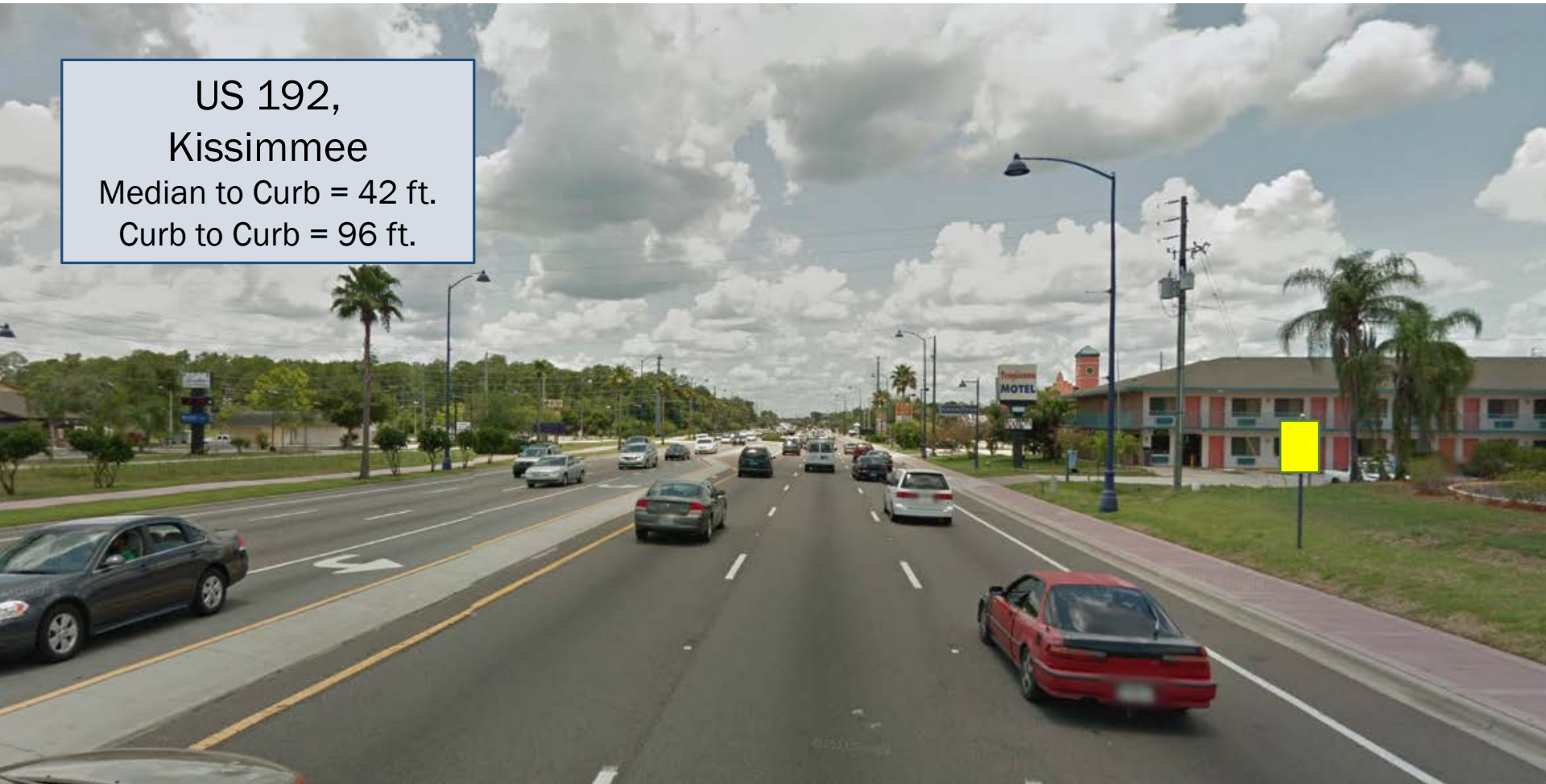
US 12,  
Missoula, MT  
Curb to Curb = 86 ft.





# Guess the Posted Speed

US 192,  
Kissimmee  
Median to Curb = 42 ft.  
Curb to Curb = 96 ft.



# Guess the Posted Speed

Westheimer Road,  
Houston, TX  
Median to Curb = 44 ft.  
Curb to Curb = 105 ft.



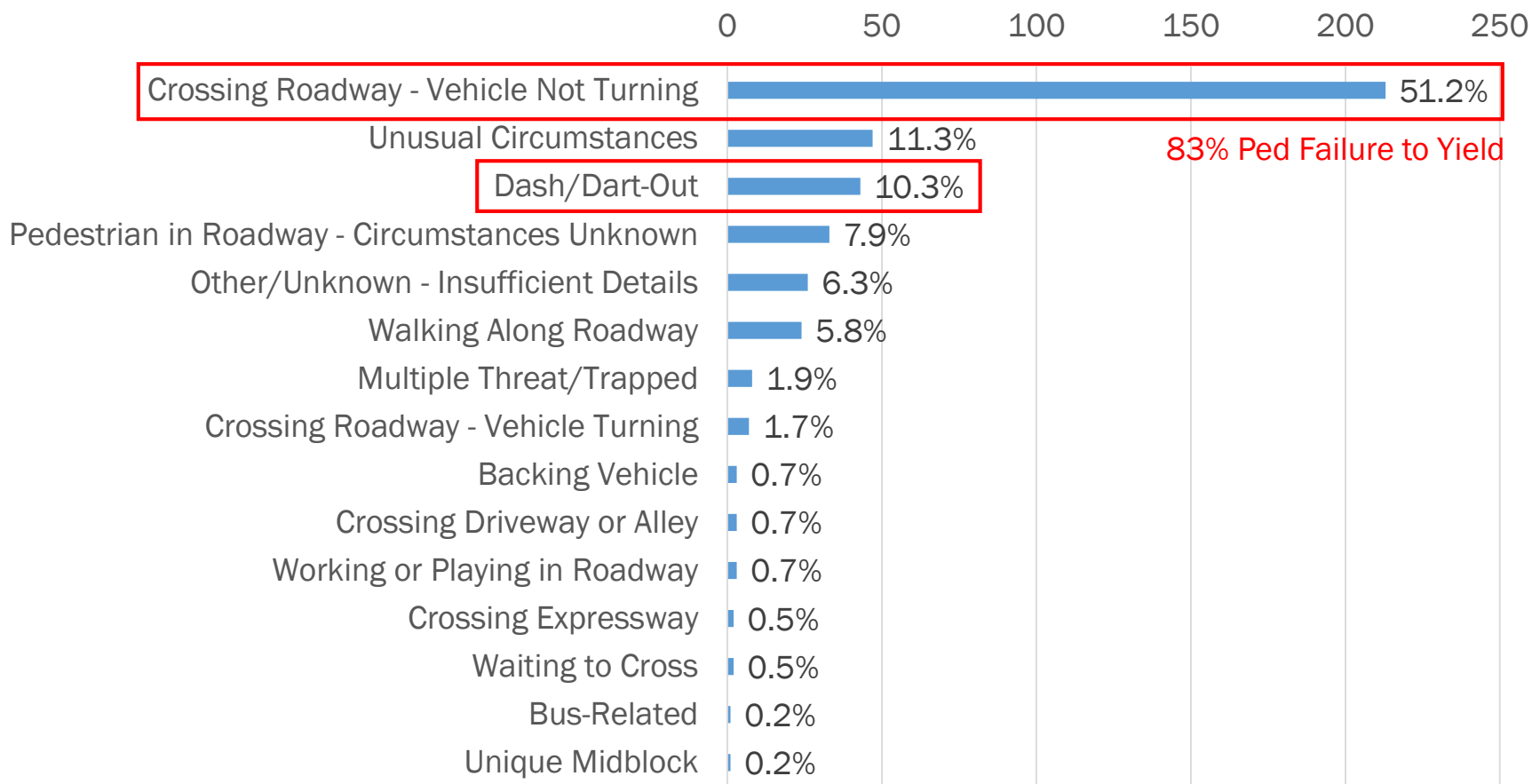


# Pedestrian Fatalities by Crash Type Group

(Excluding Non-Roadway and Limited Access Highways)

402 Crashes in 7 Years

Pedestrian Crash Type Groups

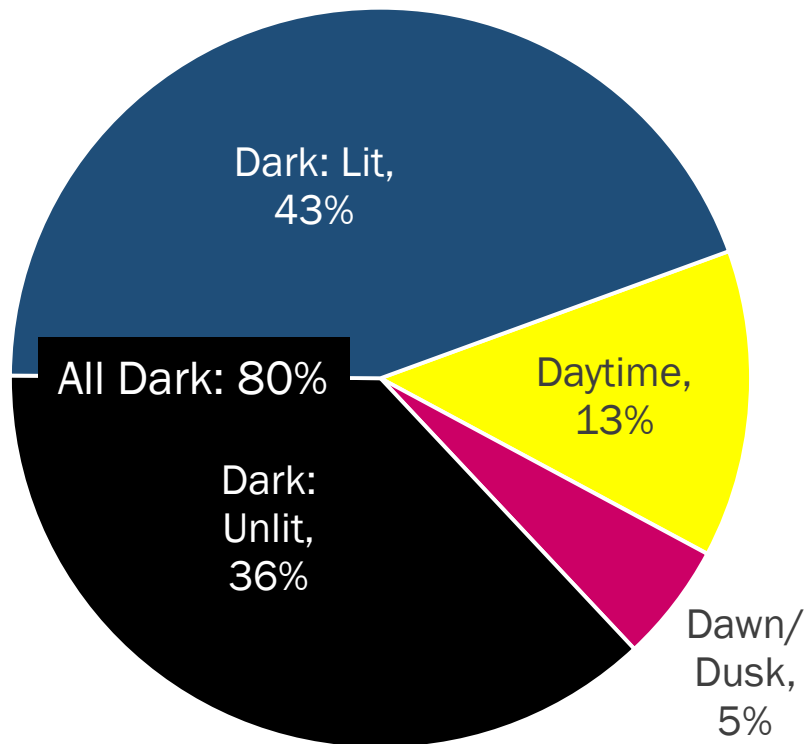


# Pedestrian Fatalities: Lighting & Speed

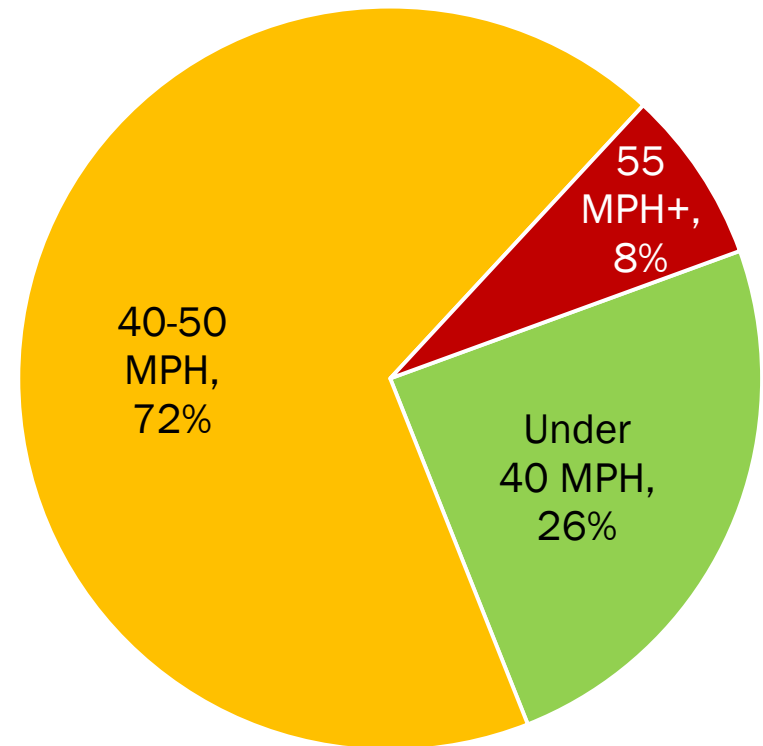
(Excluding Non-Roadway and Limited Access Highways)

402 Crashes in 7 Years

## Lighting



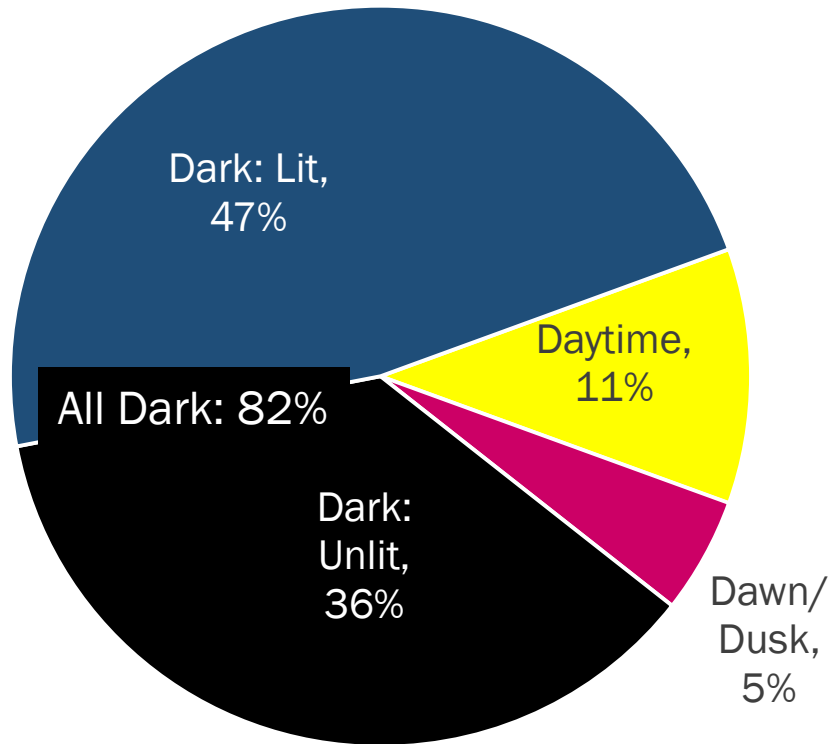
## Posted Speed



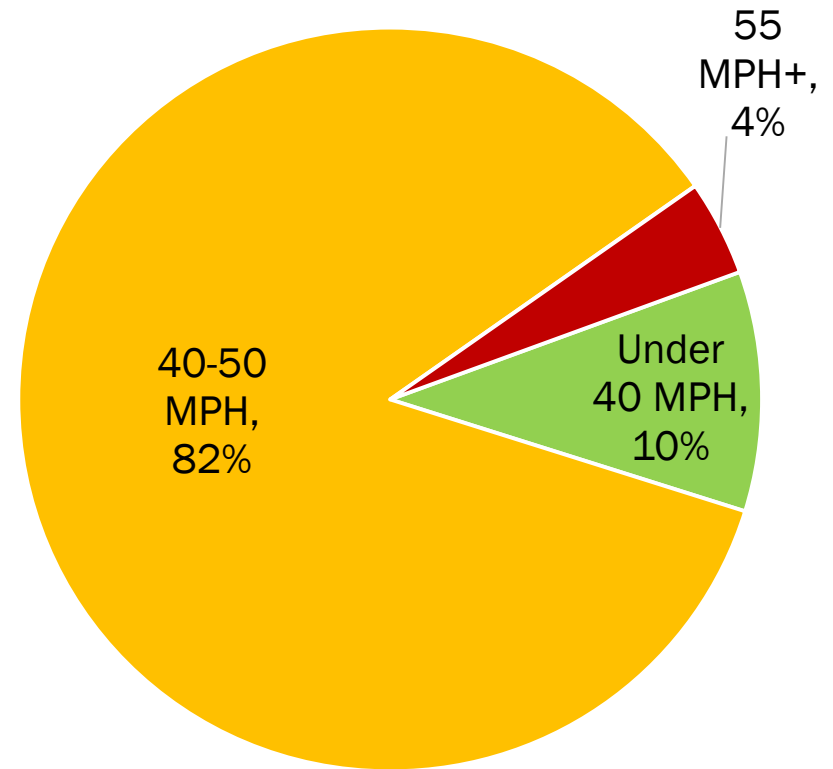
# Pedestrian Fatalities: Lighting & Speed

## Crossing Roadway – Vehicle Not Turning

Lighting



Posted Speed

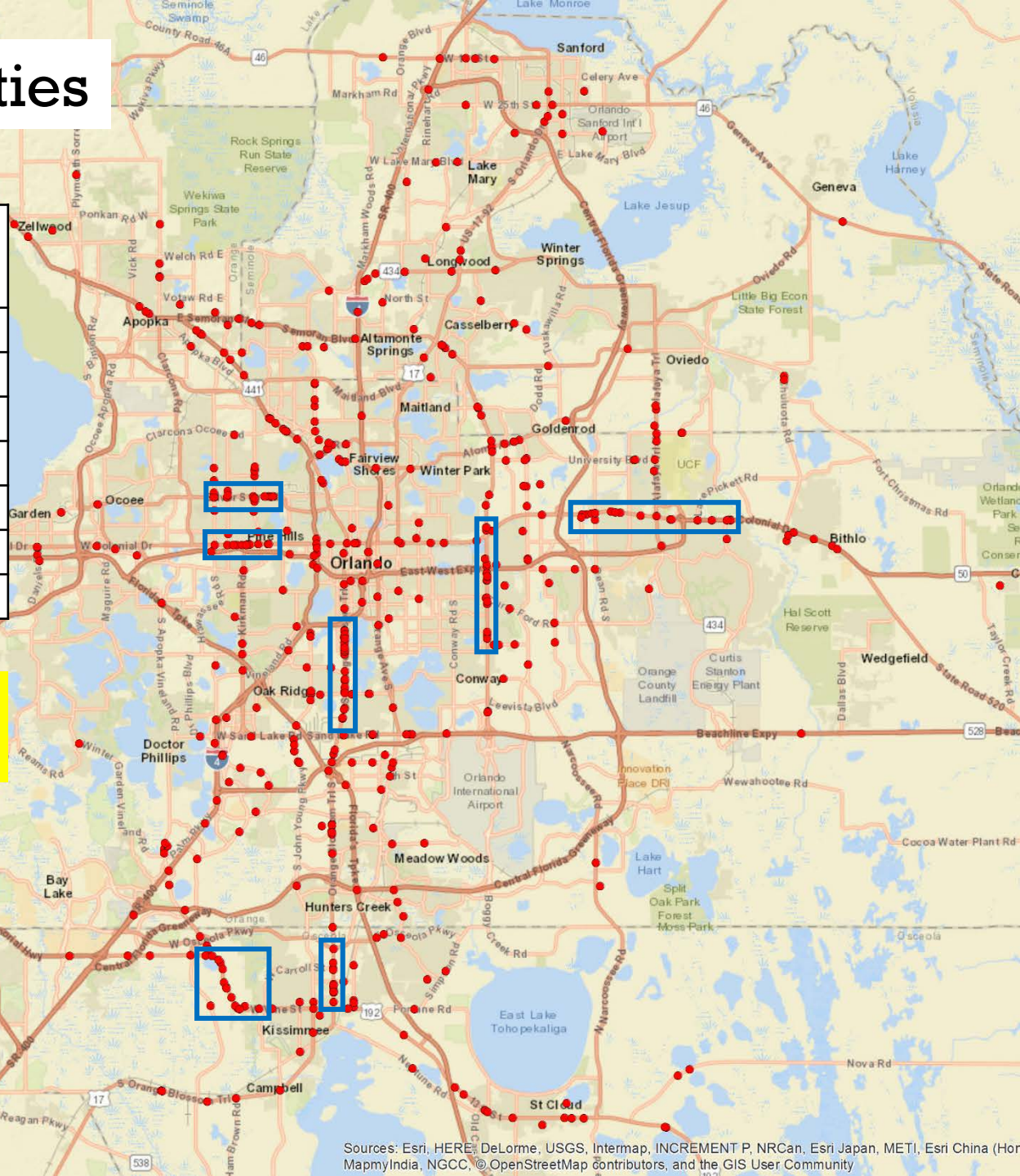




# Pedestrian Fatalities

Rank	Road	Fatals: 2011 to 2018	Crashes per Mile per Year
1	Orange Blossom Tr.	24	0.64
2	Orange Blossom Tr.	11	0.55
3	Semoran Blvd.	21	0.54
4	Silver Star Road	10	0.45
5	West Colonial Dr.	11	0.44
6	Irlo Bronson Hwy.	12	0.41
7	East Colonial Dr.	15	0.30

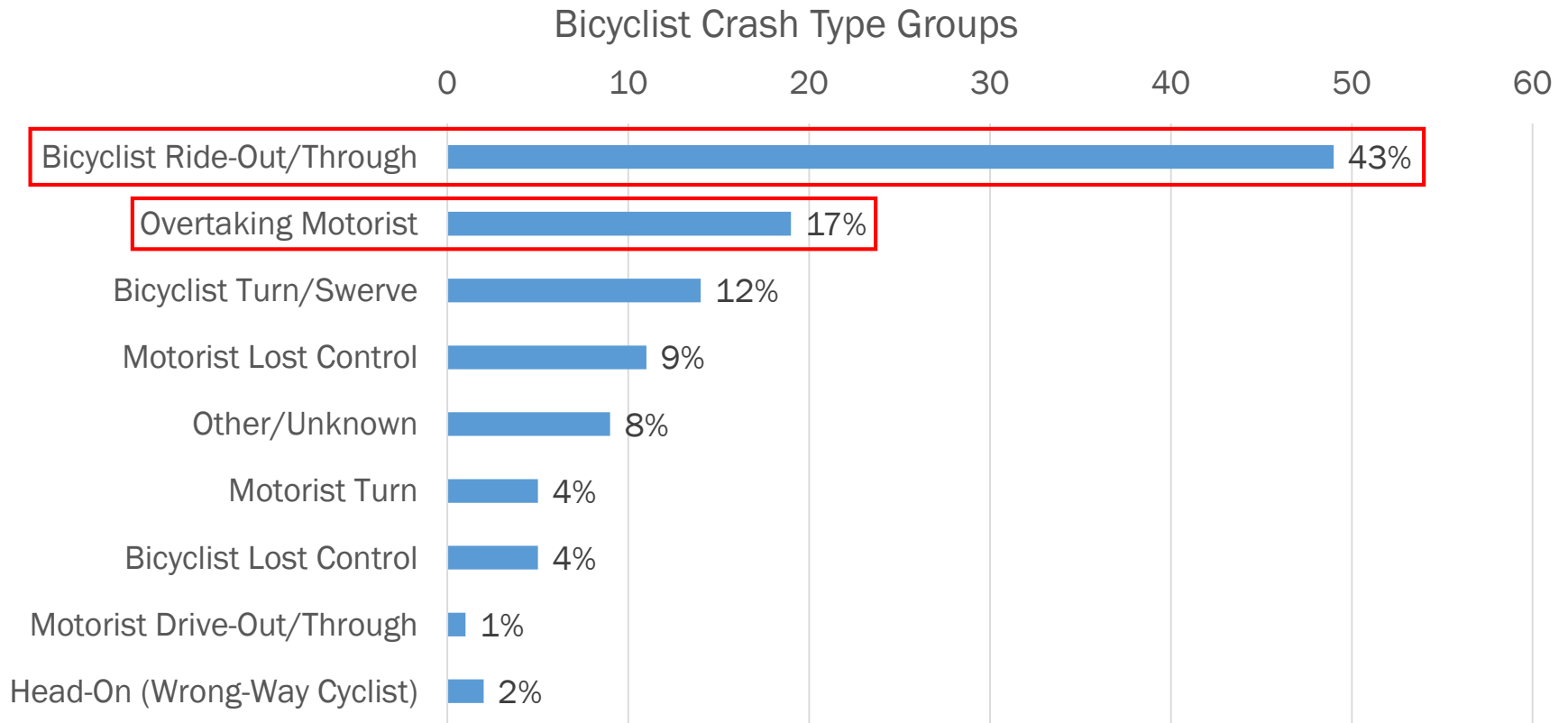
**28 miles responsible for 20% of pedestrian deaths**



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Swire, WGC, Andromeda, MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

# Bicyclist Fatalities by Crash Type Group

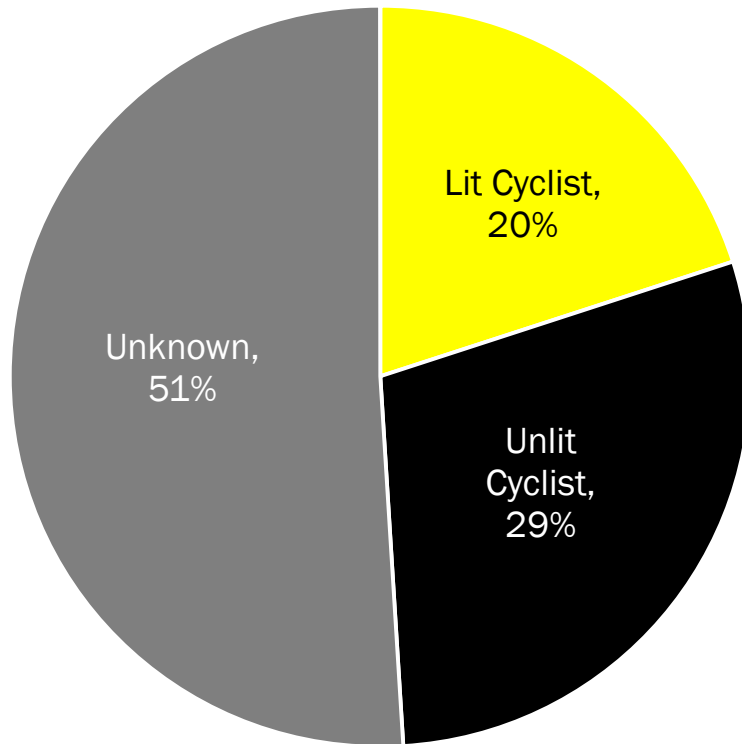
115 Crashes in 10 Years



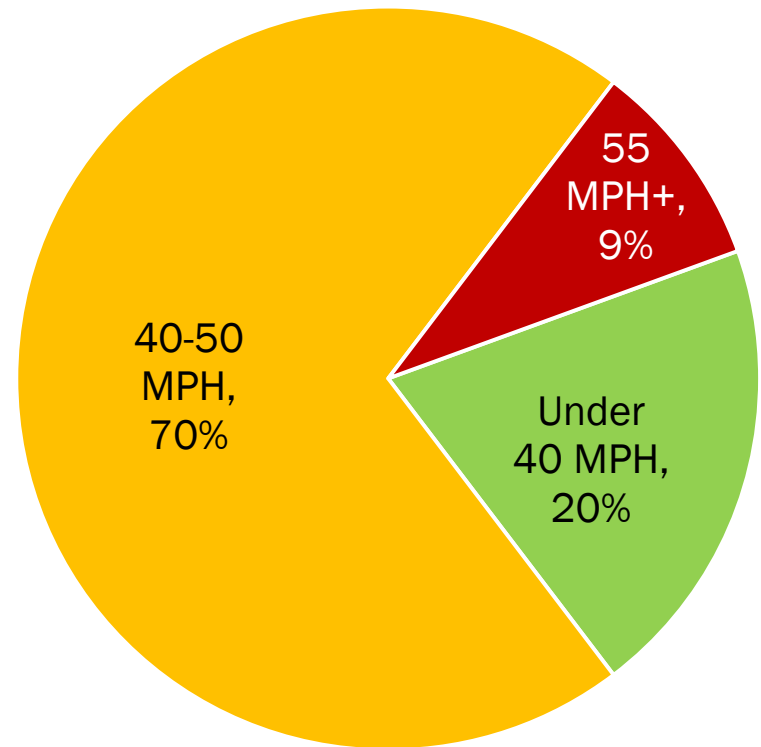
# Bicyclist Fatalities: Lighting & Speed

115 Crashes in 10 Years

## Cyclist Lighting



## Posted Speed

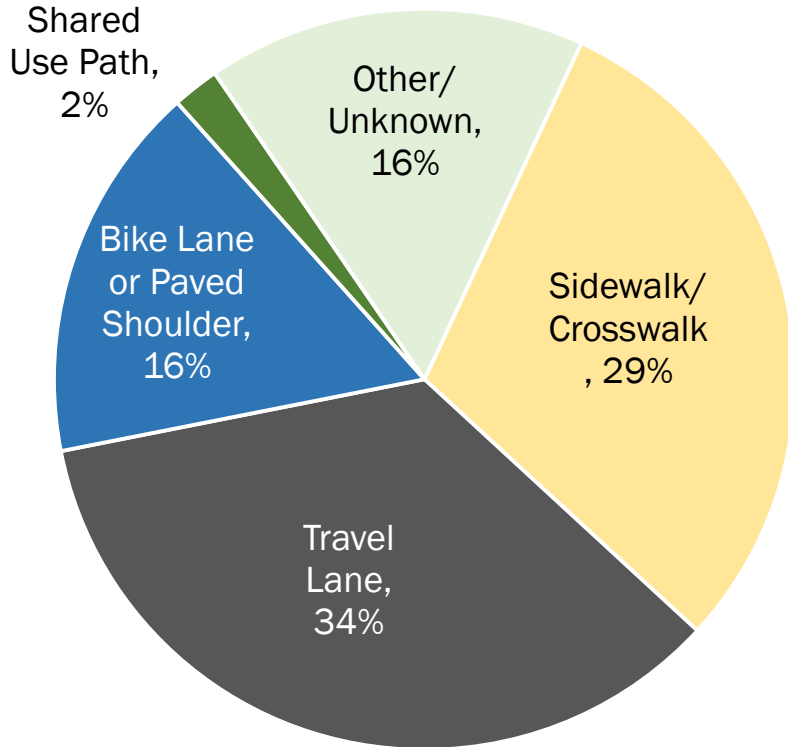




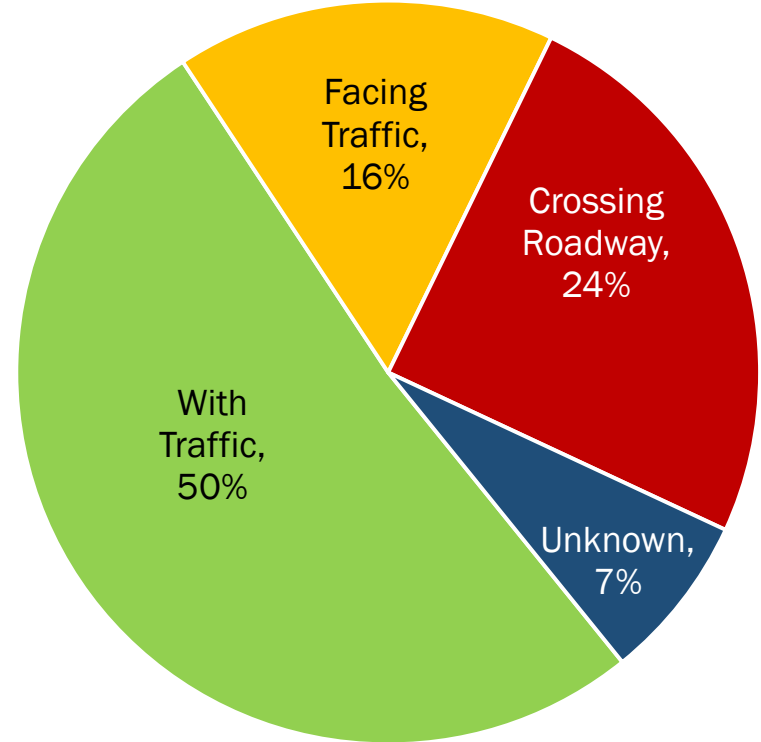
# Bicyclist Fatalities: Position & Direction

## 115 Crashes in 10 Years

### Bicyclist Position



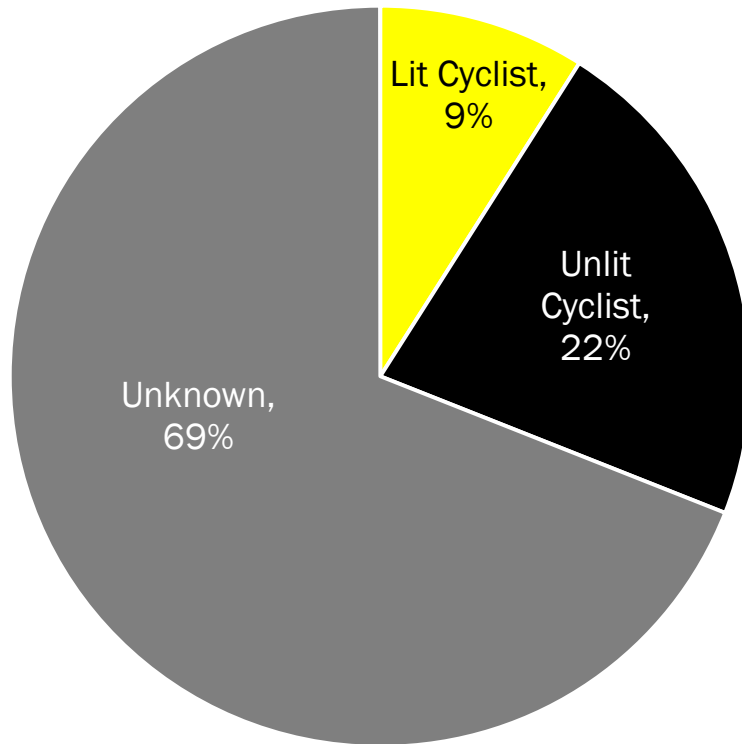
### Bicyclist Direction



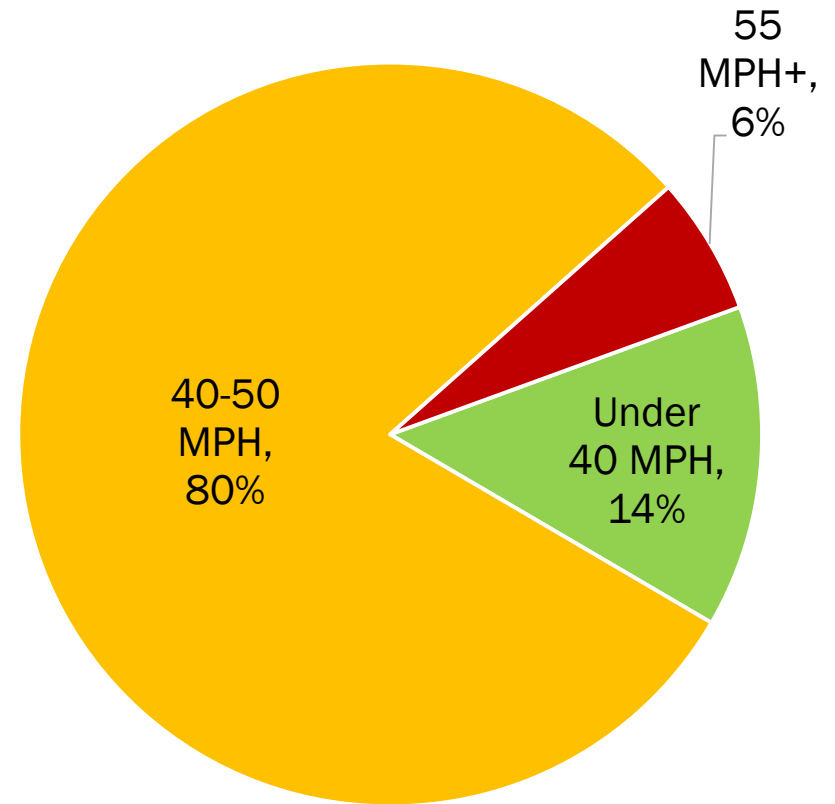
# Bicyclist Fatalities: Lighting & Speed

## Bicyclist Ride-Out/Through 51 Crashes in 10 Years

Cyclist Lighting



Posted Speed

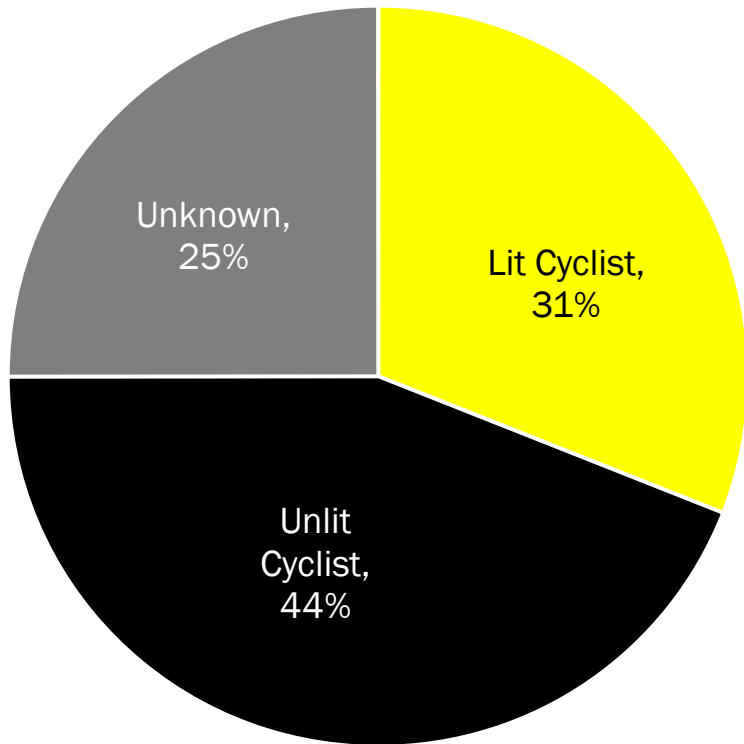


# Bicyclist Fatalities: Lighting & Speed

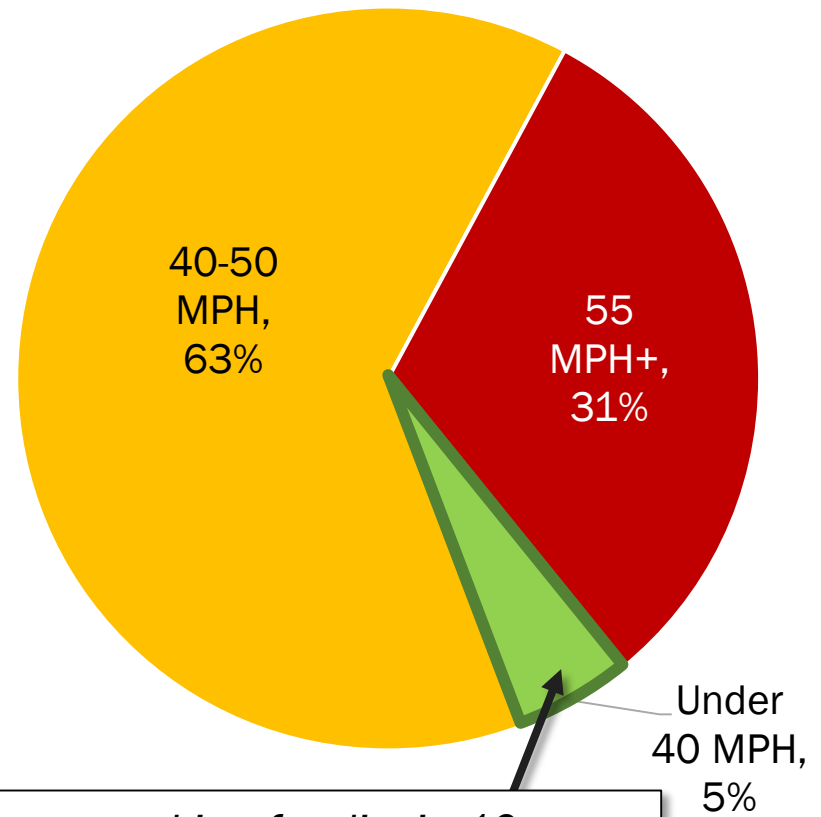
## Overtaking Motorist

### 19 Crashes in 10 Years

Cyclist Lighting



Posted Speed



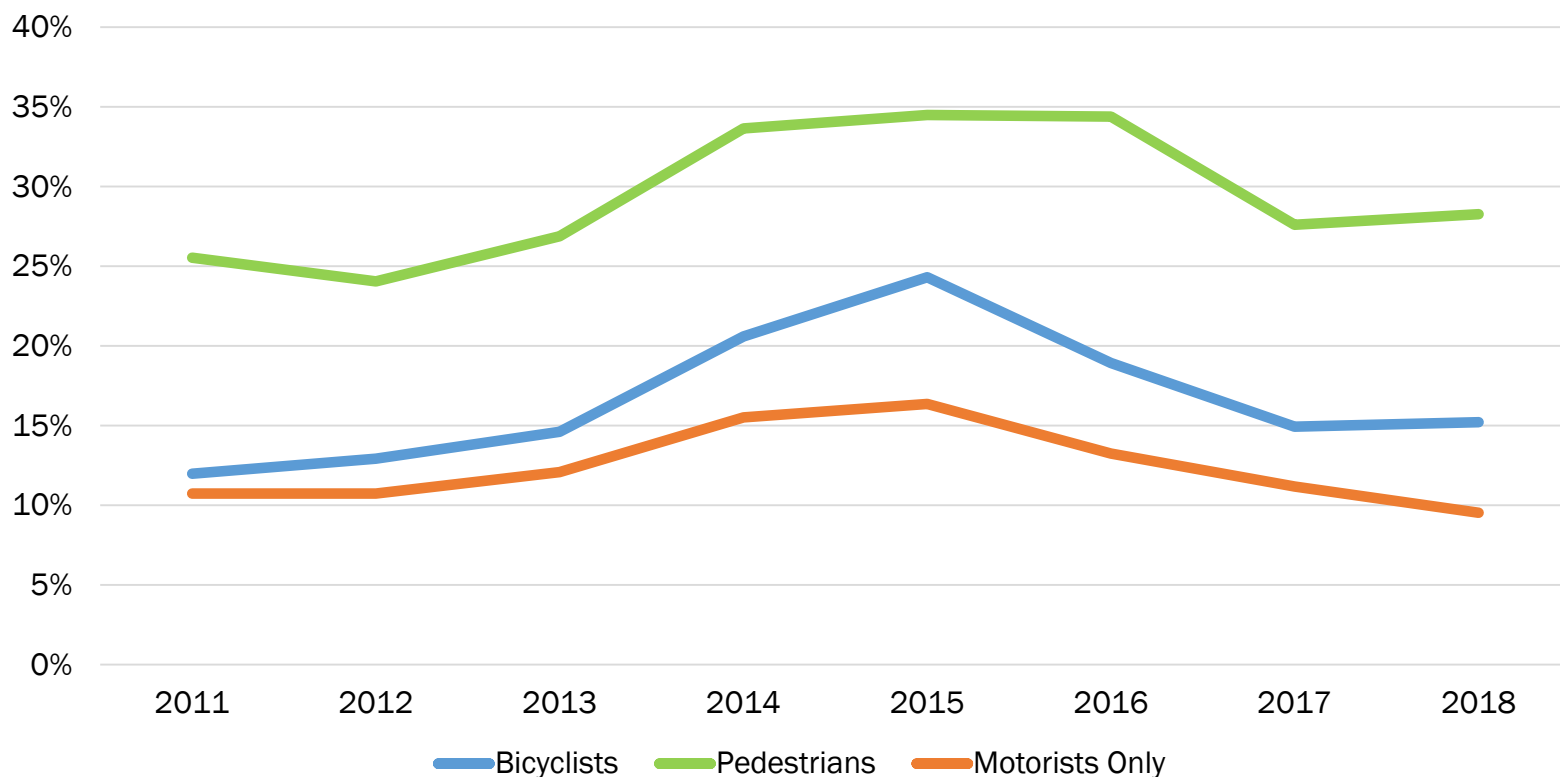
One overtaking fatality in 10 years



# Recent Bump in Pedestrian and Bicyclist Fatalities Likely Tied to Overall Bump in Crash Severity



## Percent of Injury Crashes with Fatal or Incapacitating Injuries



# Key Points: Pedestrians

- Pedestrian failure to yield accounts for more than half of deaths, mostly at night on high-speed roads
- 20% of pedestrian deaths occurred on only 28 miles of arterial roads



# Key Points: Bicyclists

- Bicyclist failure to yield accounts for more than half of deaths, mostly at night on high-speed roads
- Unlit cyclists continues to be a significant factor



# 2018

Per  
Capita  
Crash  
Rate  
Change



Compared to 2017

- Pedestrian Fatalities ▼ 23%  
(85 to 70)
- Pedestrian Injuries ▼ 11%  
(890 to 842)
- Bicyclist Fatalities ▼ 19%  
(14 to 12)
- Bicyclist Injuries ▲ 1%  
(639 to 687)





# Thank You

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