



# Safety & Health Committee Meeting

February 3, 2021

# WAMPO Regional Safety & Health

## Overview of Safety & Health Plan

- SAFETY - Overview
- HEALTH - Overview
- Safety Data Initiative
- Transportation & Health Tool



# SAFETY - Overview

## Monitor Transportation Related Safety Activities

- Review and analyze the safety implications of transportation policy to provide a basis for actions and decisions;
- Conduct analyze and recommend policies for reducing transportation fatality and injury rates;
- Develop, coordinate, and evaluate public policy on transportation safety issues;
- Engage with stakeholders on issues impacting a wide range of safety issues.
- Look for opportunities to advance the WAMPO's safety mission.



# SAFETY - Overview

How to Reduce the Crashes? = Areas of Work:

1. Human Behavior
2. Emerging and Automated Technologies
3. Data
4. Agency Relationships - Federal, State, Regional & Local
5. Regulations & Enforcement
6. Communications with the Public and Stakeholders



# SAFETY DATA INITIATIVE (SDI)

1. Seek to Integrate Data Sources
2. Identify Focus Area
3. Identify Strategies

## WHY Integrate Data Sources ?

- Data sources enhance our understanding of crash risk and our ability to mitigate it
- Evolve from retrospective to predictive analysis to better target safety risk



# SAFETY DATA INITIATIVE (SDI)

## WHAT are the Focus Areas ?

- Data Visualization
  - Data Integration
  - Predictive Insights
- Data Visualization: Make data analysis and insights accessible to policy-makers through clear, compelling data visualizations.
  - Data Integration: Integrate existing DOT databases and new private sector data sources to answer safety questions.
  - Predictive Insights: Use advanced analytic techniques to identify risk patterns and develop insights that anticipate and mitigate safety risk to reduce injuries and fatalities.



# SAFETY DATA INITIATIVE (SDI)

## WHAT are the Strategies?

- Build capacity to perform data analysis for policy and decision making based on risk and predictive insights;
- Establish data integration inside and through collaboration with other agencies and entities to create data connections and integration; and
- Promote the innovative use of safety data and visualization among traditional and non-traditional stakeholders to turn data into useful information for continuous safety improvement.



# SAFETY DATA INITIATIVE (SDI)

- Projects - Pilot projects
- Supporting Activities - Public Engagement





# Thank You



Chad Parasa - WAMPO



# Safety & Crash Data





- **In Kansas, five out of every six motor vehicle crashes are the result of driver error. That's about 83 percent.**
- **The other 17 percent are caused by something the driver cannot control, such as the weather or an animal running into the road.**
- **Driver error is the cause of 95 percent of all fatal crashes.**

# Sedgwick County

## Motor Vehicle Crash Summary (2015-2019)

### CRASHES

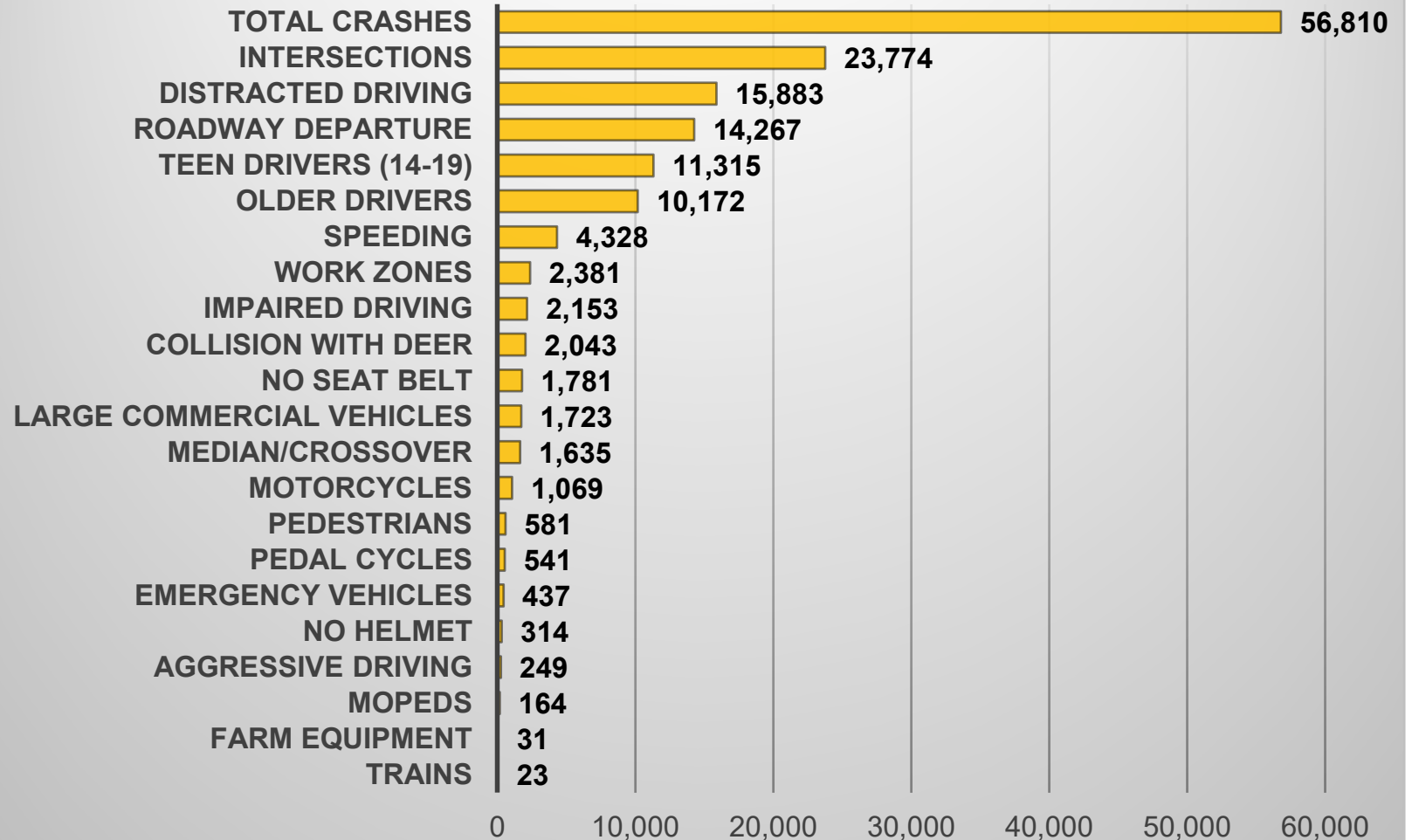
Total 56,810  
Fatal 271  
Serious injury 679  
Minor injury 7,017  
Possible injury 8,504  
PDO\* 40,339

### PEOPLE

Fatalities 291  
Serious injuries 788  
Minor injuries 9,409  
Possible injuries 12,692

\* Property damage only

## Cumulative Total Crashes by Category (2015-2019)

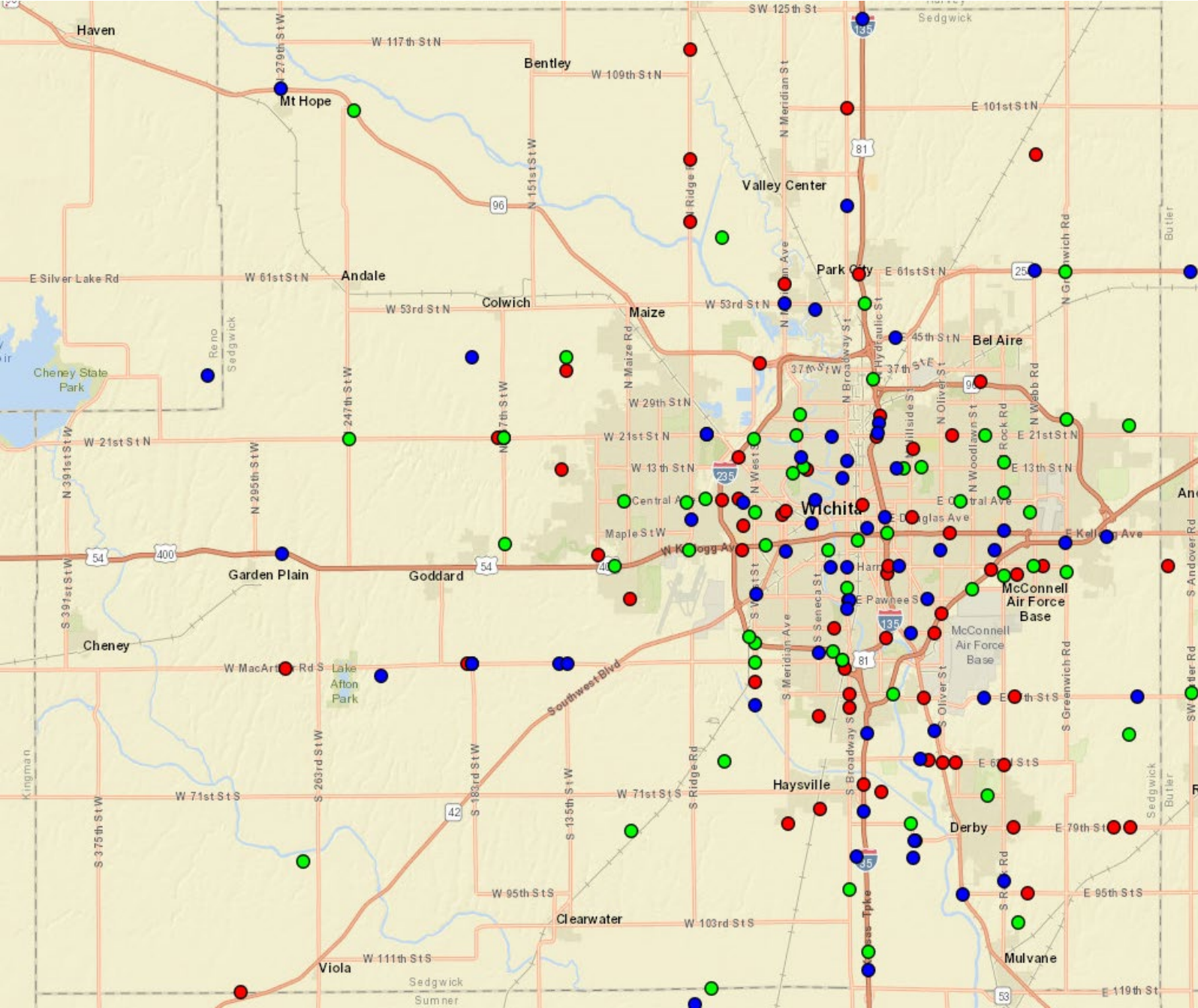


# Sedgwick County Fatal Crashes

2016 BLUE

2017 GREEN

2018 RED



# WAMPO – Monitoring Safety Performance Measures

**Table 1. WAMPO Safety Performance Measures and Targets**

PERFORMANCE MEASURE	2014 - 2018 AVERAGE	PERFORMANCE MEASURE TARGETS		
		2014 - 2018	2015 - 2019	2016 - 2020
Number of Fatalities	58.6	54	59	66
Rate of Fatalities per 100 million VMT	1.22	1.13	1.22	1.35
Number of Serious Injuries	146.8	138	123	123
Rate of Serious Injuries per 100 million VMT	3.07	2.85	2.4	2.4
Number of Non-motorized Fatalities and Non-motorized Serious Injuries	28.2	35	35	29

## GOALS & ACTION STEPS:

- Achieve an 80 percent reduction in pedestrian and bicycle fatalities and serious injuries in 15 years and zero pedestrian and bicycle fatalities and serious injuries in the next 20 to 30 years.
- Increase the percentage of short trips represented by bicycling and walking to 30 percent by the year 2025. Short trips are defined as trips 5 miles or less for bicyclists and 1 mile or less for pedestrians.

## Motor Vehicle Crash Summary US-54 in Sedgwick County

	CRASHES				PEOPLE	
Year	Total	Fatal	Injury	PDO*	Deaths	Injuries
2015	922	2	253	667	2	359
2016	775	1	231	543	1	326
2017	774	2	202	570	2	350
2018	730	1	195	534	1	282
2019	751	3	211	537	3	314
<b>Total</b>	<b>3,952</b>	<b>9</b>	<b>1,092</b>	<b>2,851</b>	<b>9</b>	<b>1,631</b>

\*PDO – property damage only

# City of Wichita

## Motor Vehicle Crash Summary (2015-2019)

### CRASHES

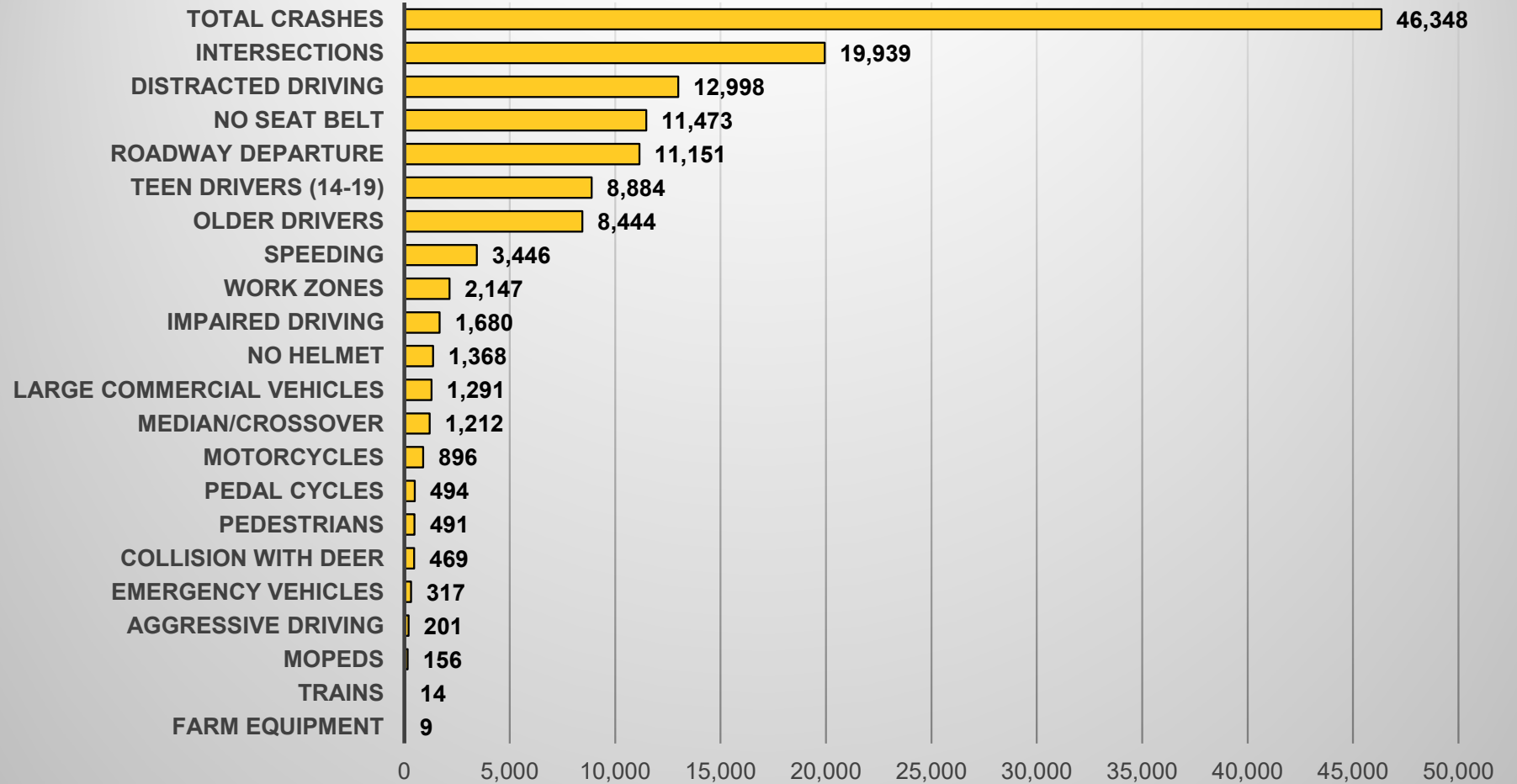
Total 46,348  
Fatal 175  
Serious injury 512  
Minor injury 5,896  
Possible injury 7,187  
PDO\* 32,578

### PEOPLE

Fatalities 181  
Serious injuries 591  
Minor injuries 7,873  
Possible injuries 10,601

\* Property damage only

## Cumulative Total Crashes by Category (2015-2019)





# City of Andover

## Motor Vehicle Crash Summary (2015-2019)

### CRASHES

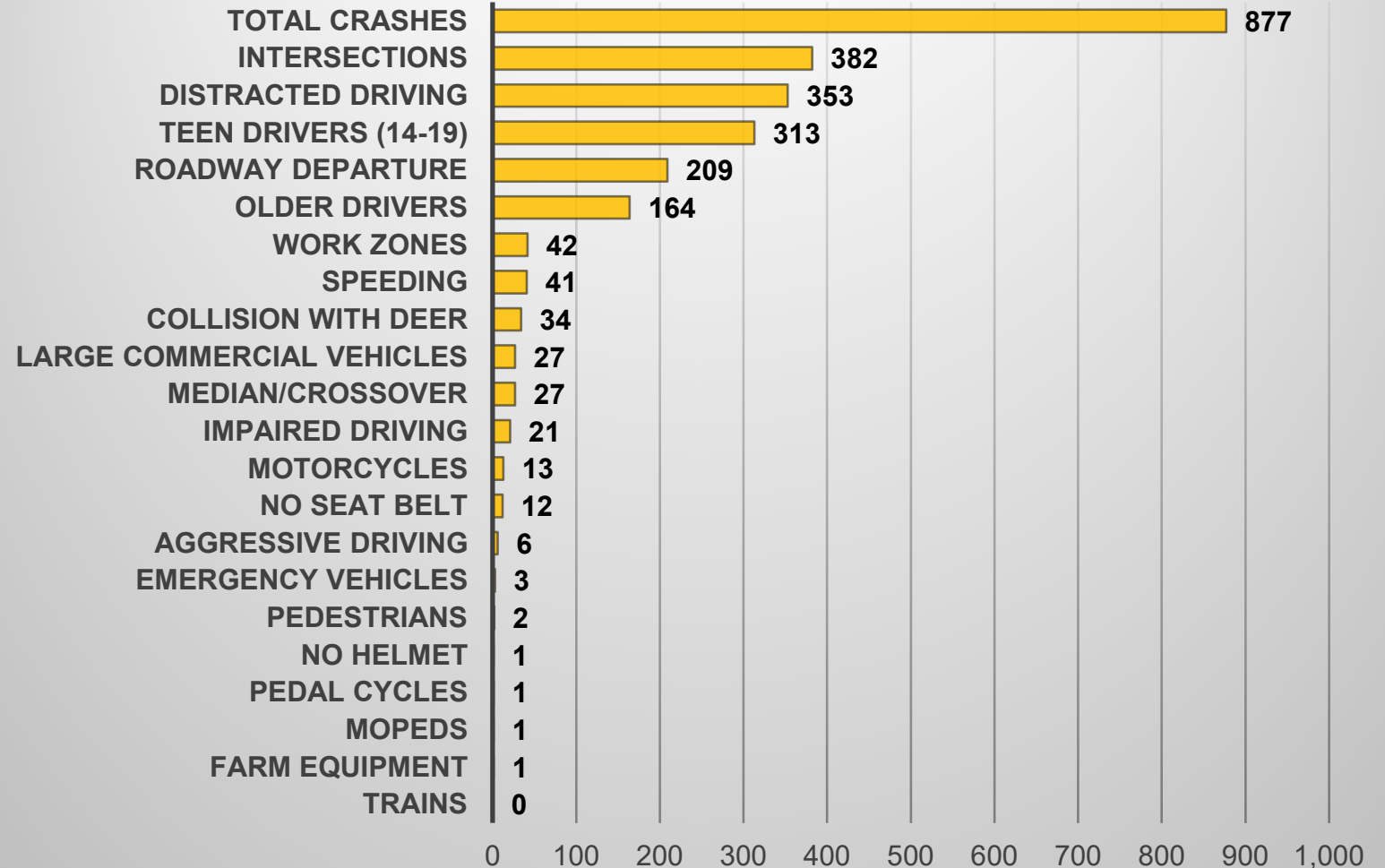
Total 877  
Fatal 1  
Serious injury 4  
Minor injury 62  
Possible injury 85  
PDO\* 725

### PEOPLE

Fatalities 1  
Serious injuries 4  
Minor injuries 77  
Possible injuries 127

\* Property damage only

## Cumulative Total Crashes by Category (2015-2019)



# City of Mulvane

## Motor Vehicle Crash Summary (2015-2019)

### CRASHES

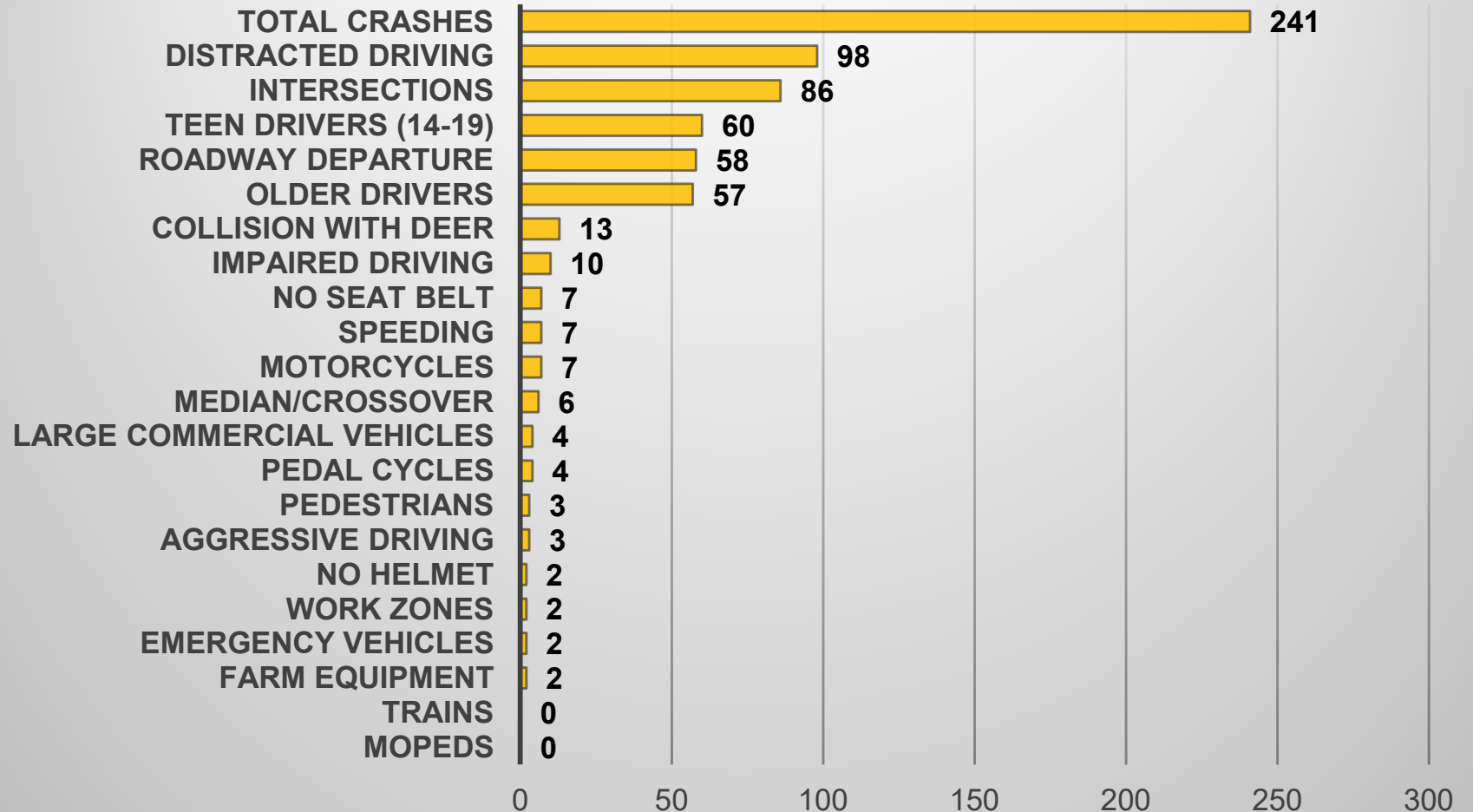
Total 241  
Fatal 2  
Serious injury 1  
Minor injury 31  
Possible injury 30  
PDO\* 177

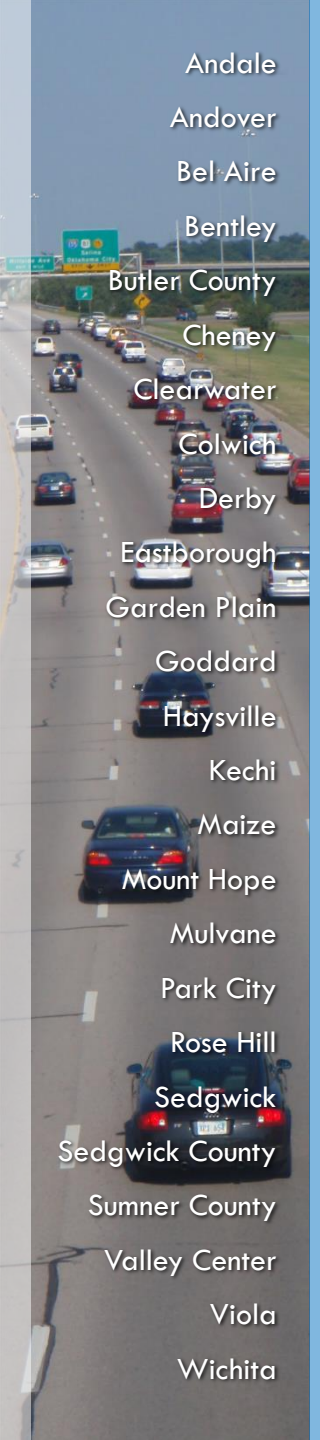
### PEOPLE

Fatalities 2  
Serious injuries 1  
Minor injuries 34  
Possible injuries 51

\* Property damage only

## Cumulative Total Crashes by Category (2015-2019)





Andale

Andover

Bel-Aire

Bentley

Butler County

Cheney

Clearwater

Colwich

Derby

Eastborough

Garden Plain

Goddard

Haysville

Kechi

Maize

Mount Hope

Mulvane

Park City

Rose Hill

Sedgwick

Sedgwick County

Sumner County

Valley Center

Viola

Wichita



# *2020 Bicycle & Pedestrian Count* Results



# 2020 Bicycle Pedestrian Count Results

- 2 Days:
  - Thursday, September 24<sup>th</sup> from 5 to 7 PM
  - Saturday, September 26<sup>th</sup> from Noon to 2 PM
- 35 Sites (including Andover, Derby, Goddard, Haysville, Kechi, Wichita, and unincorporated Sedgwick County)
- Over 60 Volunteers



# Methodology Reminder

## **The National Bicycle & Pedestrian Documentation Project**

Developed by the Institute for Transportation Engineers, these methods were designed to provide a consistent, nationwide approach to estimate the level of bicycle and pedestrian activity in communities across the nation.

# Categories & Results

- 3 categories of people were documented
  - Bicyclists
  - Pedestrians
  - Other (using roller skates, skateboards, scooters, Segways, etc.)
- 59.48% (n=1,992) of the traffic counted was captured on Thursday, September 24<sup>th</sup>

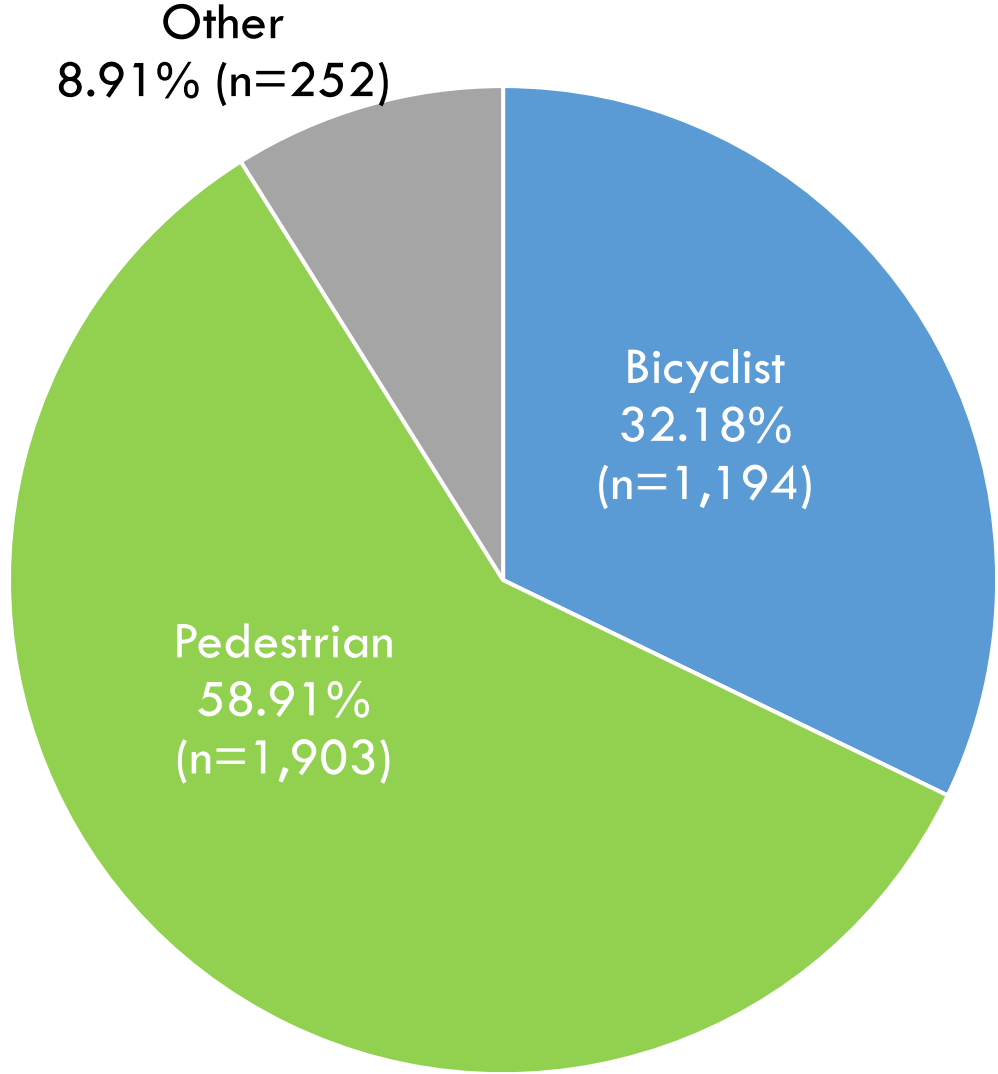
# Top Ten Sites of 2020

1. Arkansas River Path, at Keeper of the Plains (791)
2. Broadway and Central (350)
3. Douglas and Washington (261)
4. 21<sup>st</sup> and Ridge (198)
5. 1<sup>st</sup> and Maize Rd (184)
6. 1<sup>st</sup> and Waco (159)
7. Central and Nims (142)
8. Pawnee and Broadway (128)
9. Broadway and 1<sup>st</sup> (123)
10. K-96 Path, at Great Plains Nature Center (84)



# 2020 Distribution

***3,349 Total***



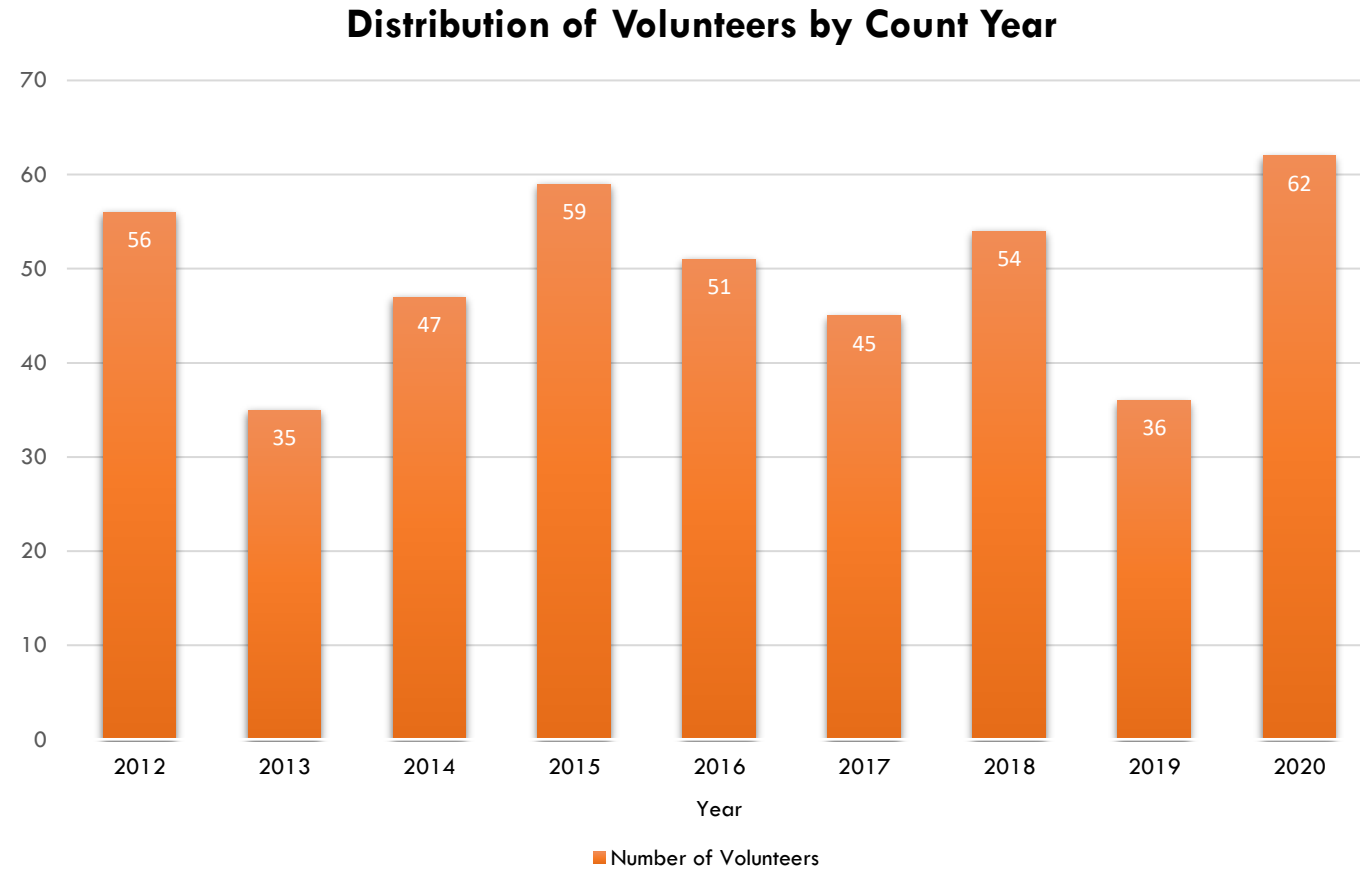


# Comparisons

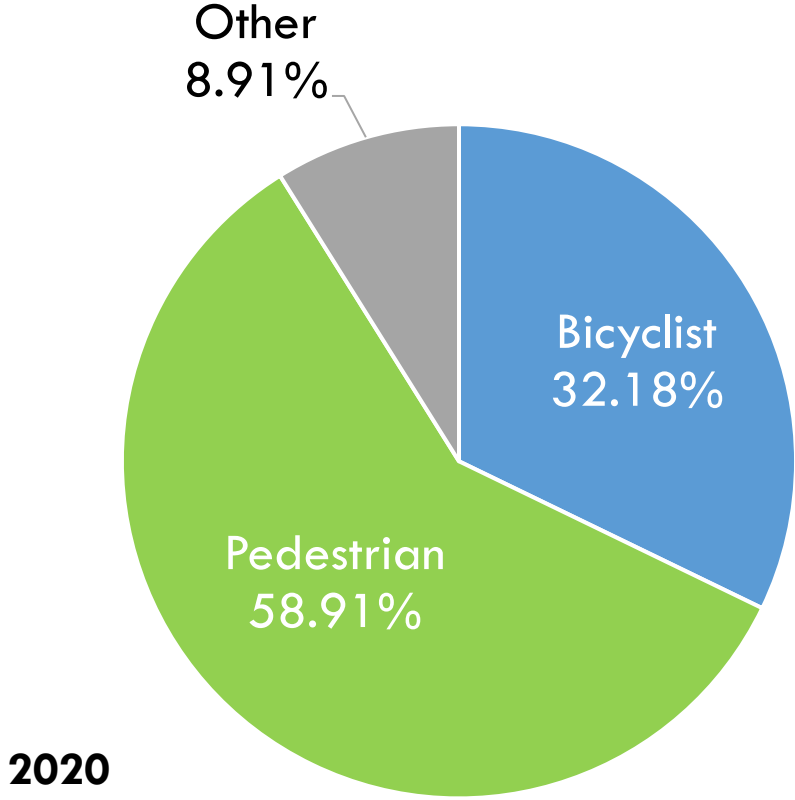
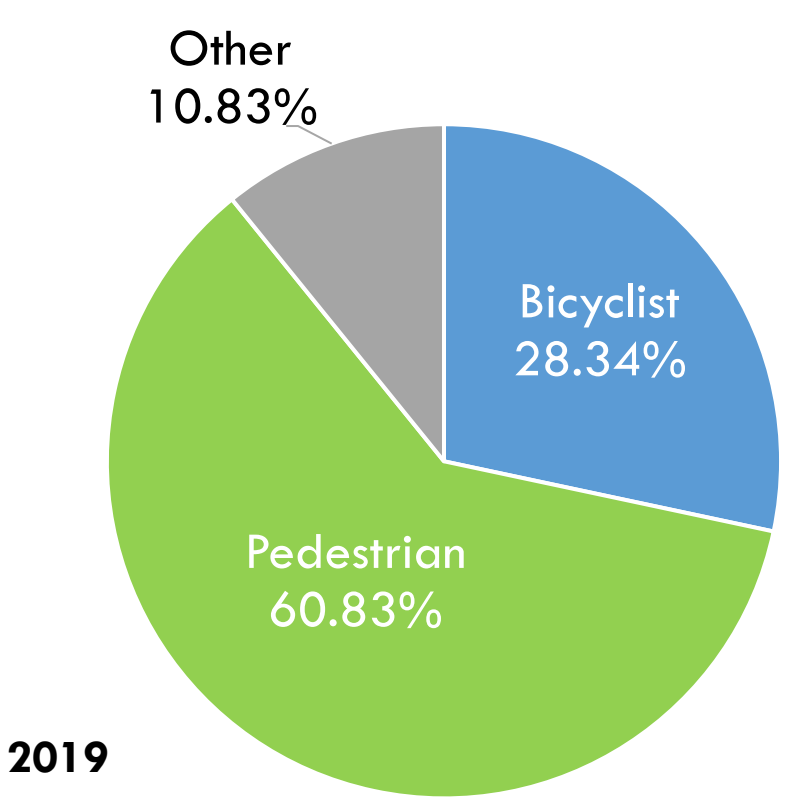
- Volunteers counted 15% more people in 2020 than in 2019, an increase from 2,844 to 3,349.
  - At 27 sites counted at in both years: 6% increase, from 2,842 to 3,024
- First count year (2012) to current year (2020):
  - At 34 sites counted at in both years: 31% increase, from 2,292 to 3,349

# Comparisons

- Volunteer support increased by 42%, from 36 volunteers in 2019 to 62 volunteers in 2020.



# Traffic Distribution Comparison



# WAMPO Mobile App

- Rebuilt and deployed in 2019
- Partners:
  - WSU T3: App Development
  - Wichita: Open Streets
  - Health & Wellness Coalition: Walktober
- Usage:
  - Android: 101
  - Apple: 1.1



## Looking Forward

Volunteers are critical to this effort. Please help us recruit!

The 2021 dates are set for:

- Thursday, September 23<sup>rd</sup> (5:00 to 7:00 PM)
- Saturday, September 25<sup>th</sup> (Noon to 2:00 PM)