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# **Commercial Motor Vehicles: Alabama Crash Trends**

**The 2022 Southeast CMV Safety  
Research Summit**

Jesse Norris - Center for Advanced Public Safety (CAPS)

# Using Safety Portal: Agenda for CMV and Rural CMV Crashes

- Overview of crashes and CMV involved crashes
  - Notable trends
- Safety Portal first look
  - CMV rural crashes
- Safety Portal closer look
  - CMV rural fatal crashes
- Incorporating Excel

# Crash Trends

## 2019-2021: Yearly Averages

- Crashes: 148,491
- Fatal Crashes: 864
- Serious Injury Crashes: 3,794

## 2021 (+ or - Average)

- Crashes: 152,088 (2.4%)
- Fatal Crashes: 888 (2.8%)
- Serious Injury Crashes: (2.7%)

# CMV Trends

## 2019-2021: CMV Yearly Averages

- Crashes: 8,398
- Fatal Crashes: 105
- Serious Injury Crashes: 257

## CMV 2021 (+ or - Average)

- Crashes: 8,640 (2.9%)
- Fatal Crashes: 99 (6.0%)
- Serious Injury Crashes: 260 (1.2%)

# CMV Summary Trends

## 2019-2021: CMV Crash Averages

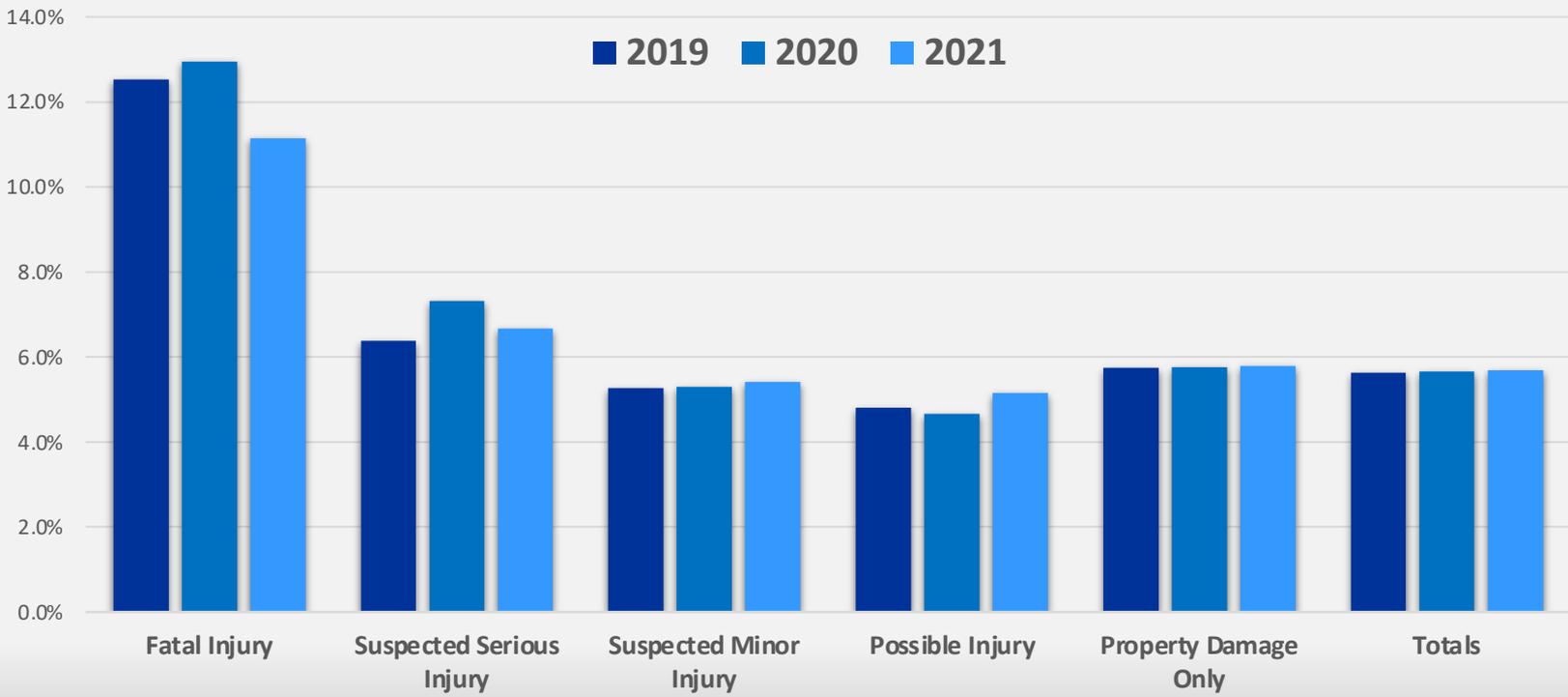
- 5.7% of all crashes
- 12.2% of fatal crashes
- 5.3% of serious injury crashes

## 2021 CMV Crash Trends

- 2.9% crash increase
- 6% fatal crash decrease
- 6.8% serious injury crash increase

# CMV Summary Trends

## % CMV Crashes 2019-2021



# 2019-2021 Safety Portal

**SAFETY** CONFIDENTIAL INFORMATION

Crash Severity

Value

- Fatal Injury
- Suspected Serious Injury
- Suspected Minor Injury
- Possible Injury

Custom Date Range: 01/01/2019 - 12/31/2021

Variable: CMV Involved  
Selected: 445,473 of 445,473 (All Categories)

Value	Count
CMV is Involved	25,193
CMV is Not Involved	420,280

Rural or Urban

AL Crash -- Rural or Urban  
01/01/2019 - 12/31/2021

Rural

Year

AL Crash -- CMV Involved  
01/01/2019 - 12/31/2021

Year	Count
2019	155,000
2020	130,000

CMV Involved

AL Crash -- CMV Involved  
01/01/2019 - 12/31/2021

Category	Count
CMV is Not Involved	420,280
CMV is Involved	25,193

# CMV Rural Crash Trends

## 2019-2021: CMV Crash Averages

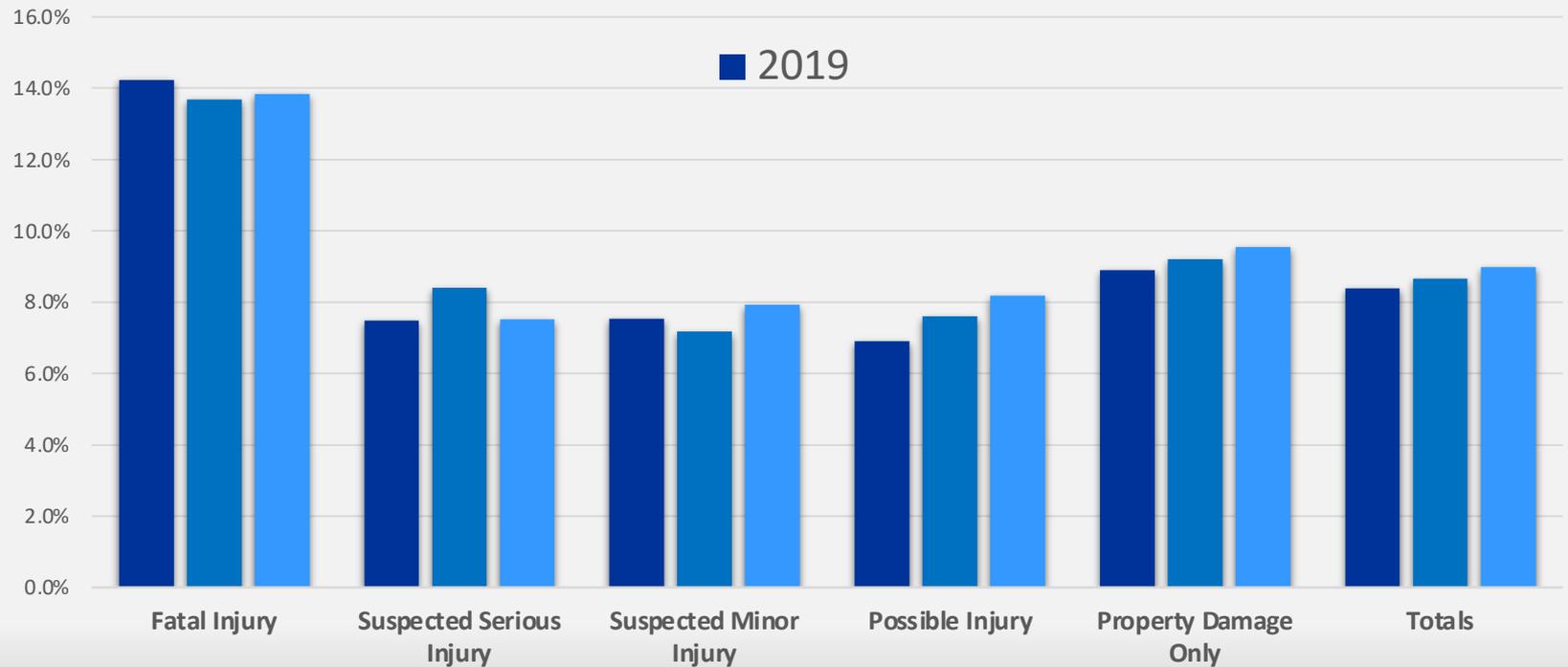
- 8.7% of all crashes
- 13.9% of fatal crashes
- 7.8% of serious injury crashes

## 2021 CMV Crash Trends

- 8.5% crash increase
- 2.8% fatal crash decrease
- 0.2% serious injury crash increase

# 2019-2021 CMV Rural Summary Trends

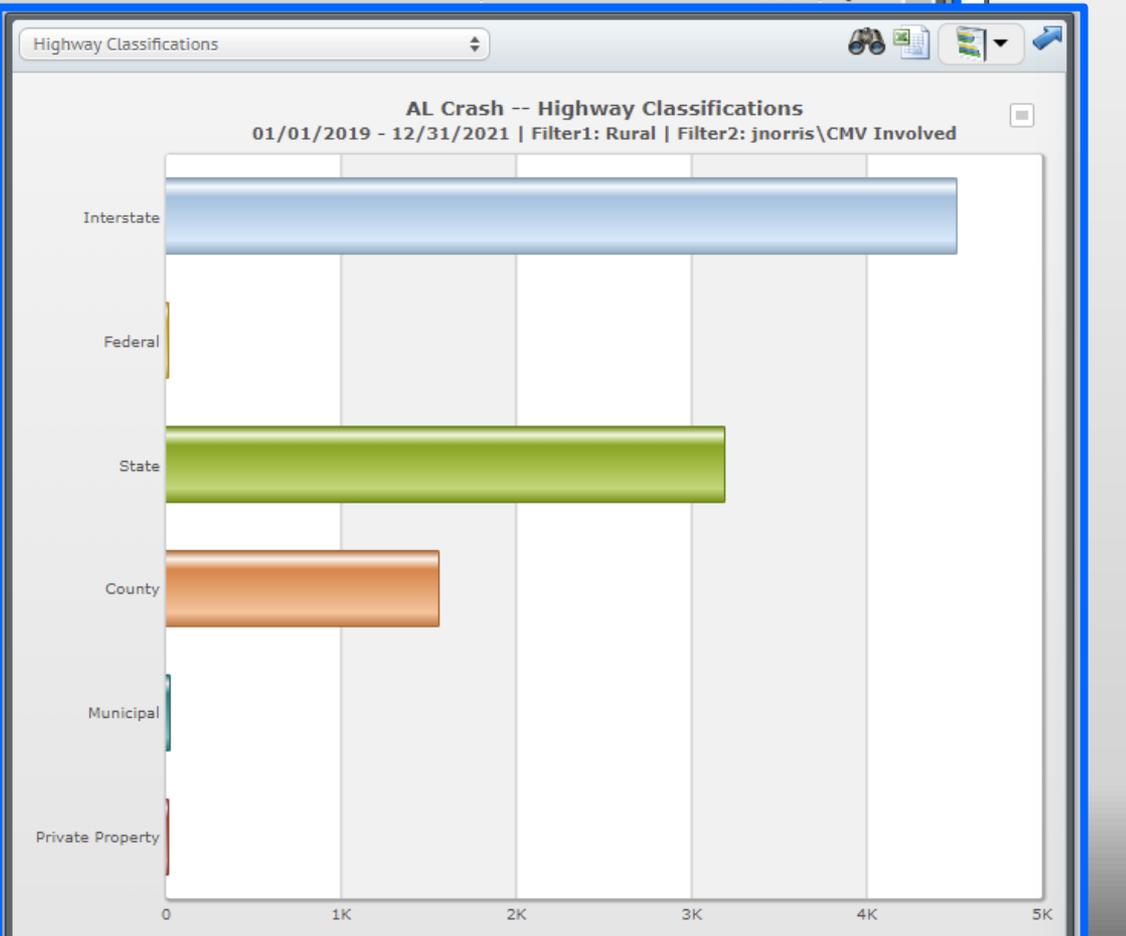
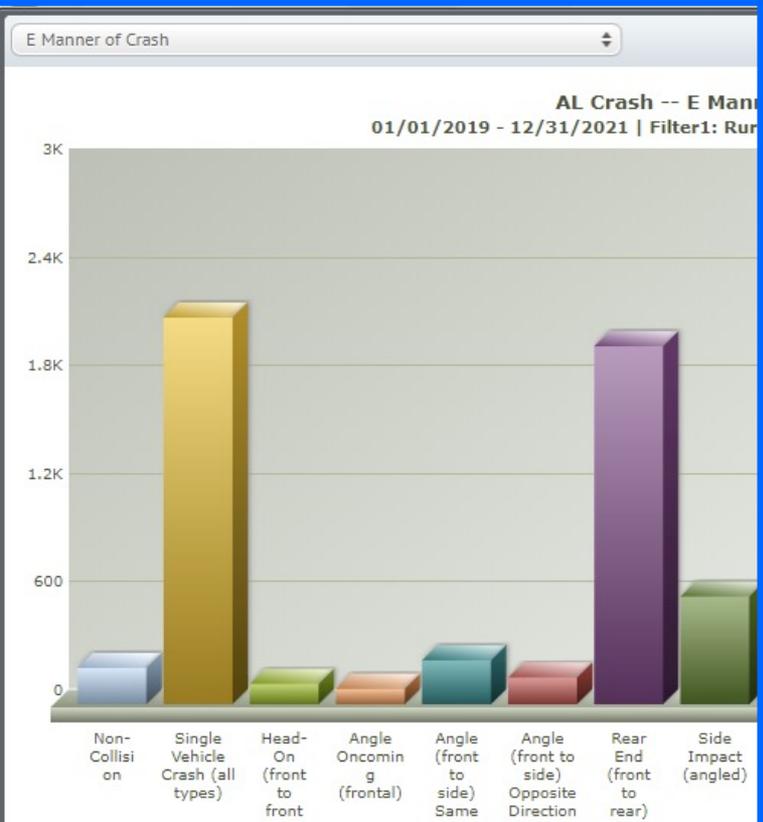
## % CMV Crashes 2019-2021



# 2019-2021 Safety Portal: Rural

Primary Cont: CU CMV Indicator

Value	Value	Count
Improper L	Yes - CU is a CMV	5,796
Defective B	No - CU is Not CMV	3,278
Followed to	CU is Not a Vehicle	14
Unseen Ob	CU is Unknown	226



# 2019-2021 Safety Portal: Rural

Date: 01/01/2019 - 12/31/2021

Filters: Rural

Variable: Crash

Primary Control: CU CMV Indicator

Value	Count
E Crossed Center Line	68
Over Speed	140
E Failed to Yield	6
Driving too fast for conditions	2

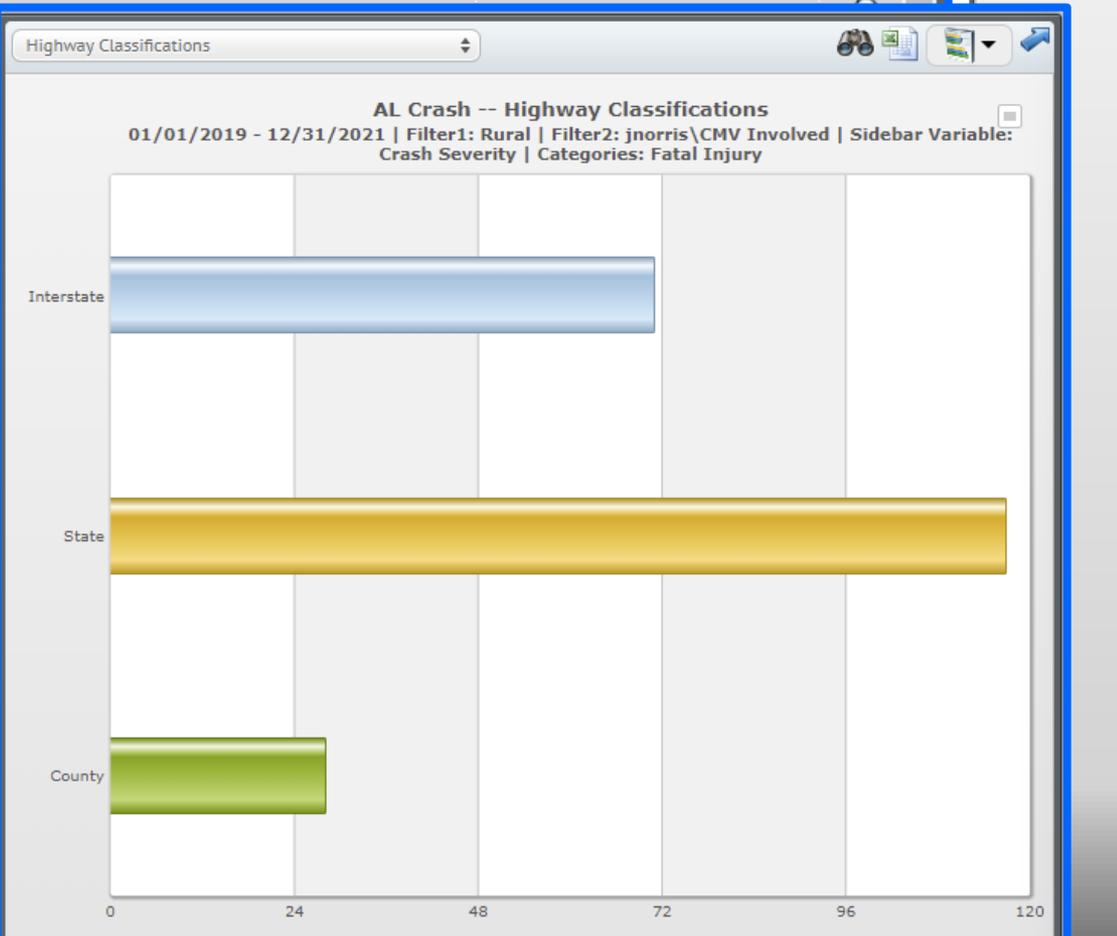
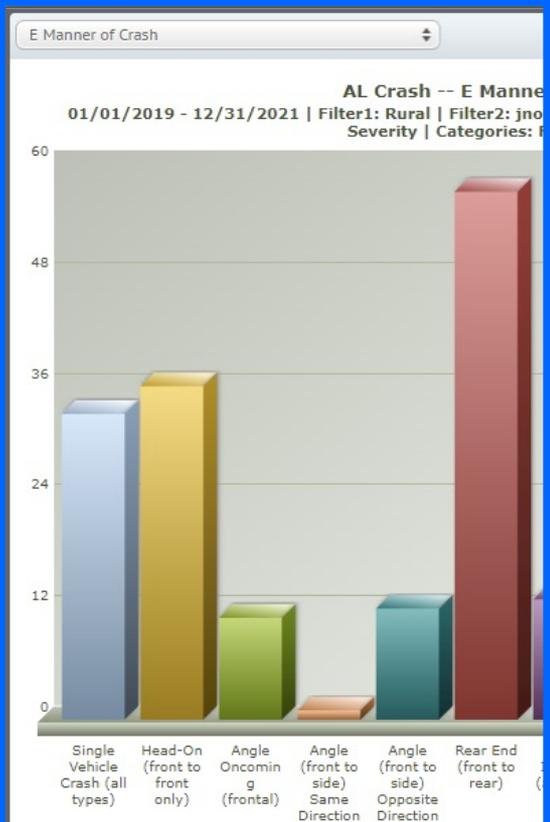
Selected: Fatal Injury

Highway Classifications

Value	Count
Traveling Wrong Way/Wrong Side of Road	1
Improper Lane Change/Use	1
Unsafe Object/Device/Animal	1

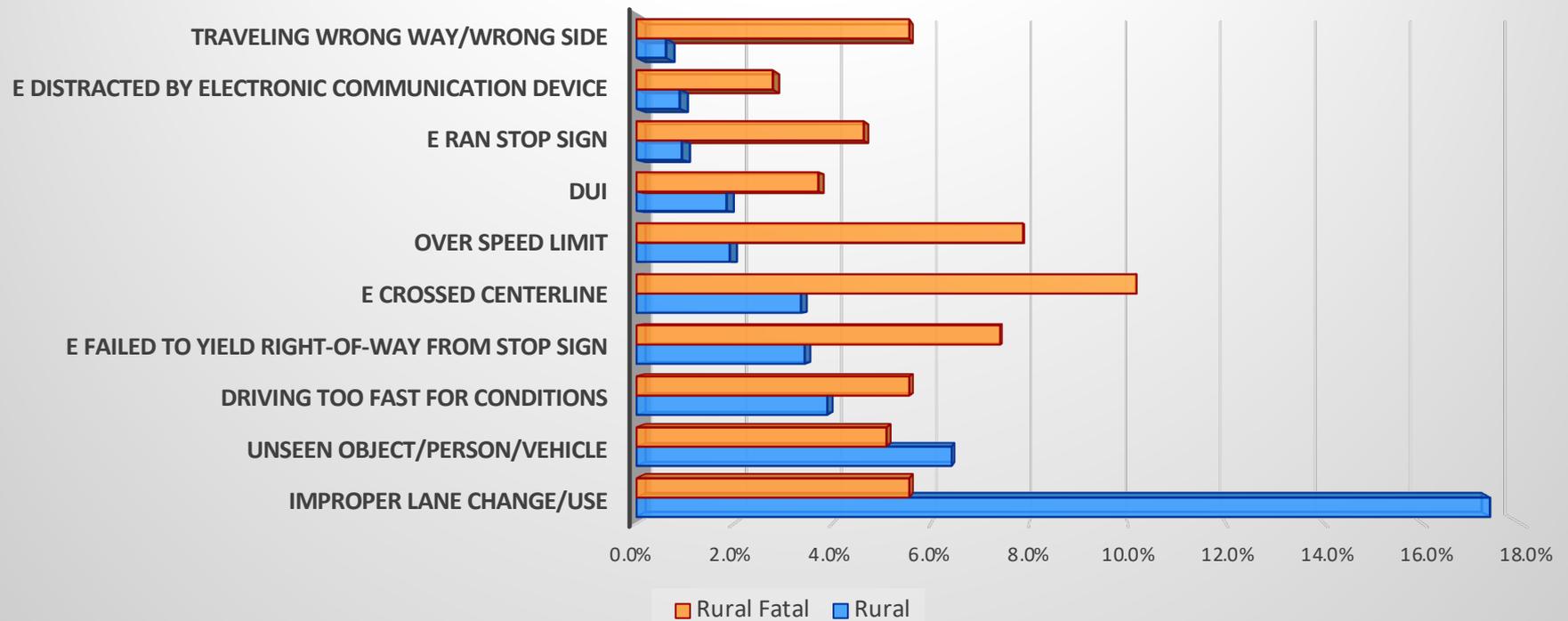
E Manner of Crash

Value	Count
Single Vehicle Crash (all types)	34
Head-On (front to front only)	36
Angle Oncoming (frontal)	11
Angle (front to side) Same Direction	2
Angle (front to side) Opposite Direction	12
Rear End (front to rear)	54



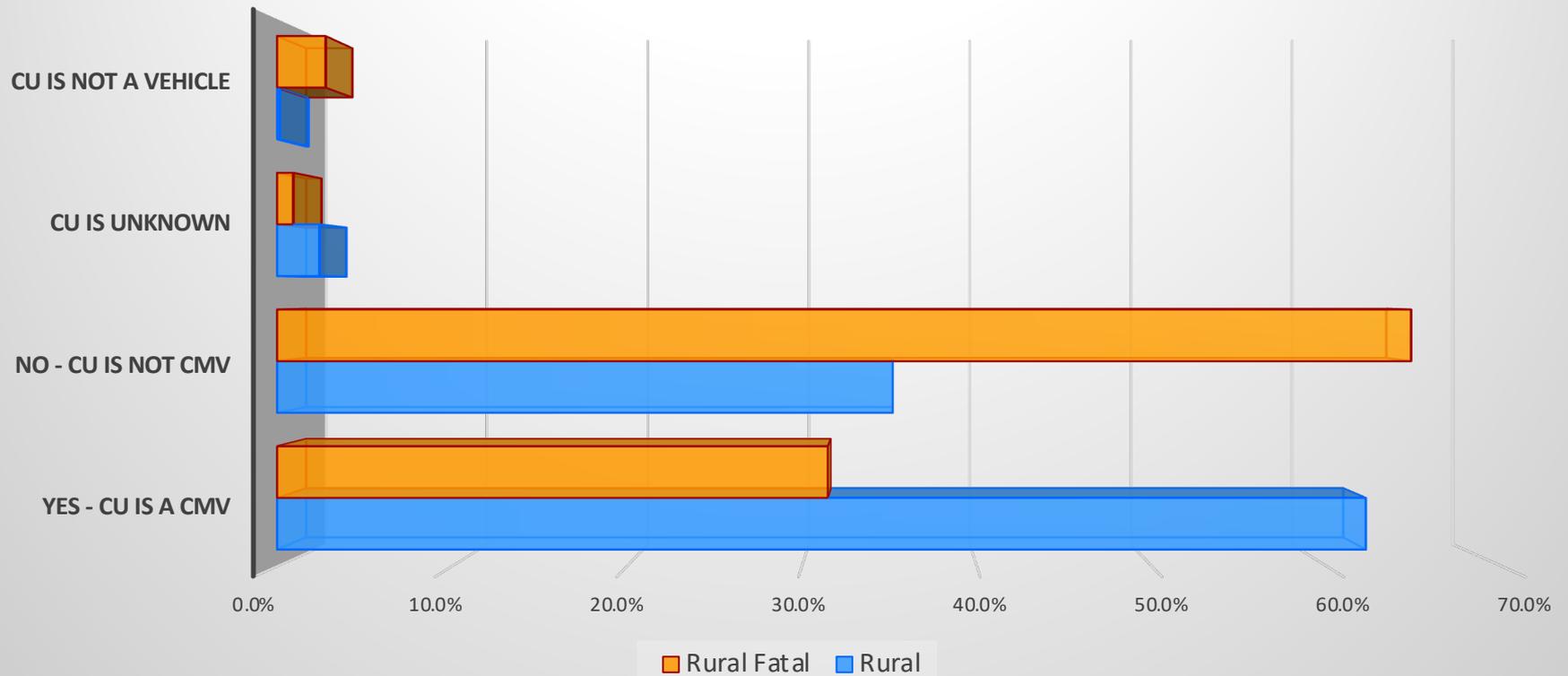
# 2019-2021 CMV Rural Crash Trends

2019-2021 Rural CMV Crashes:  
Primary Contributing Circumstance



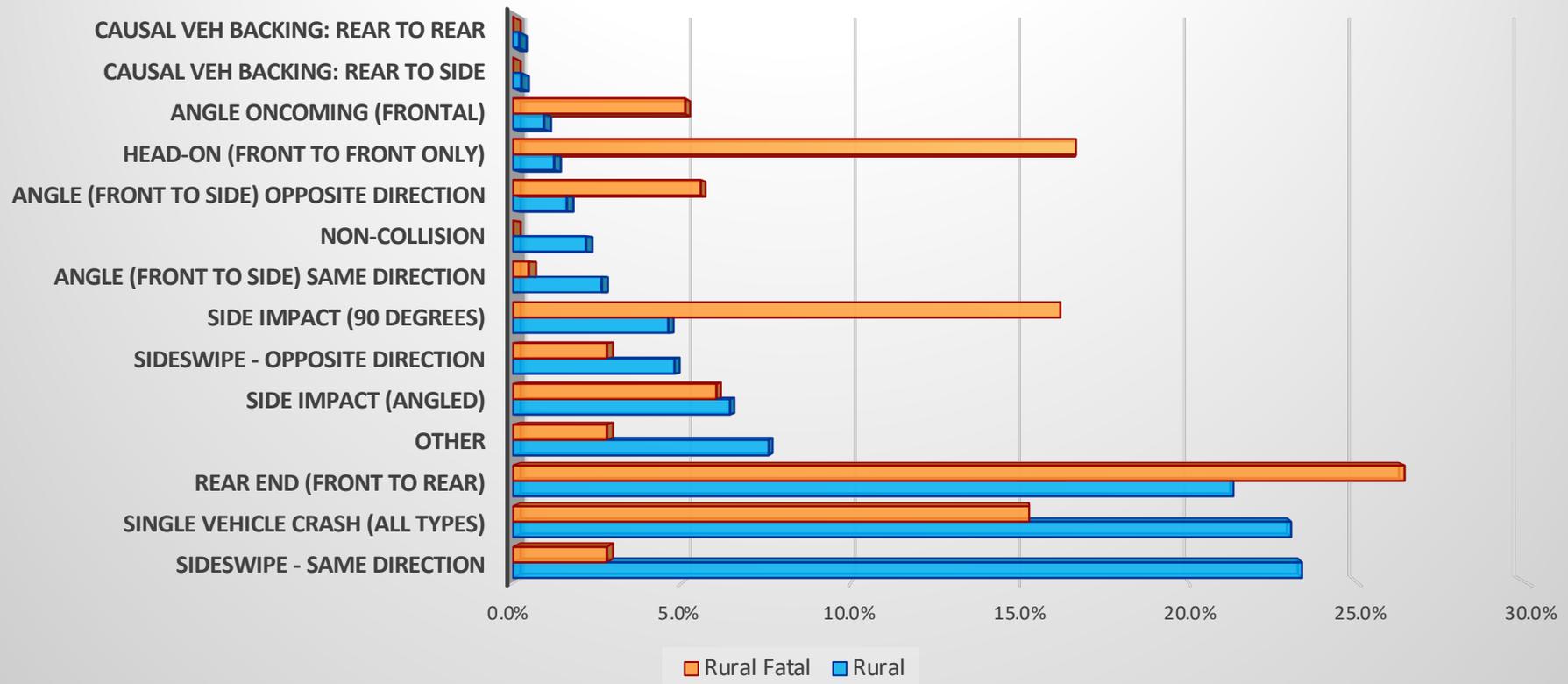
# 2019-2021 CMV Rural Crash Trends

2019-2021 Rural CMV Crashes:  
Causal Unit

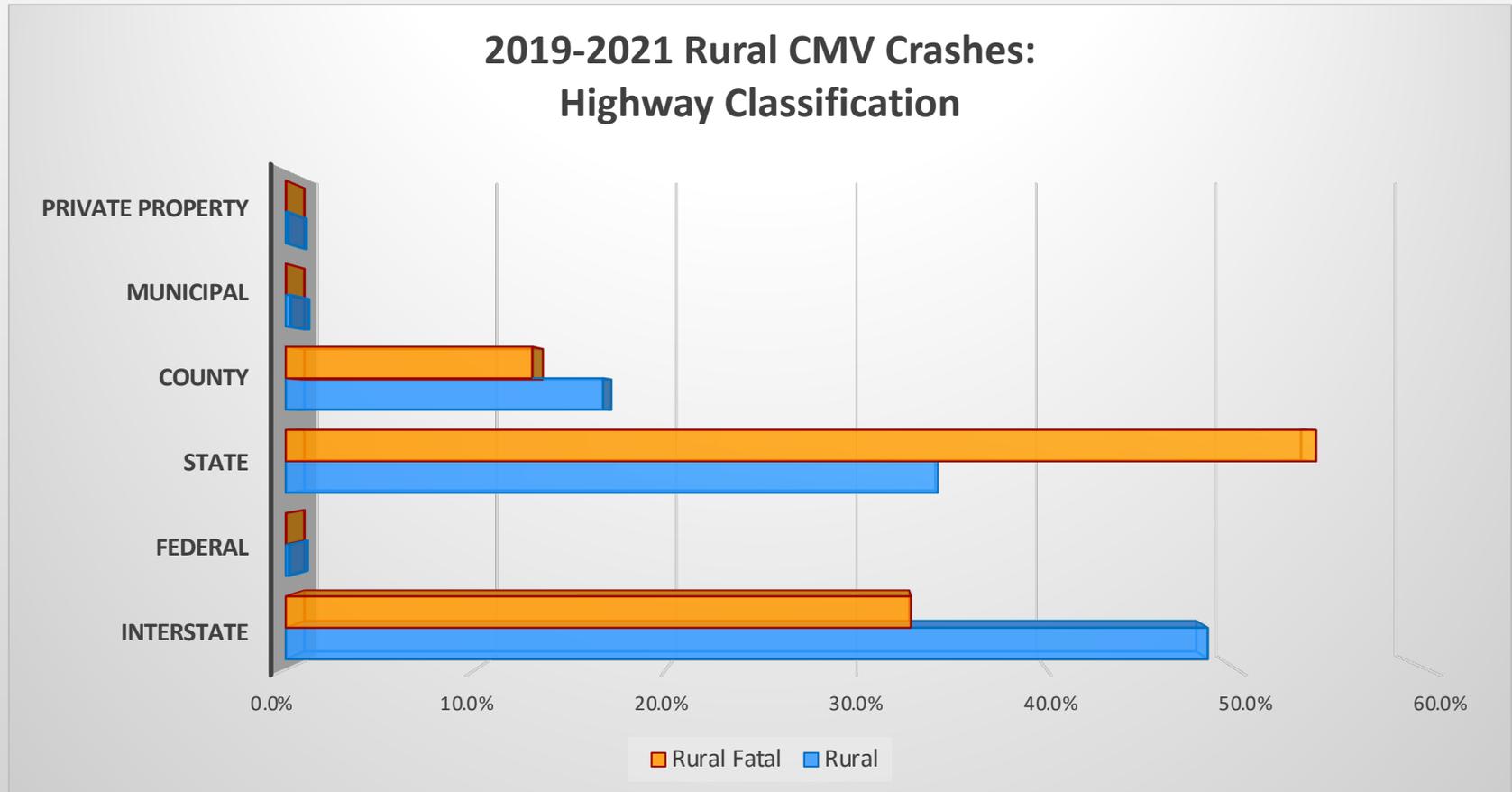


# 2019-2021 CMV Rural Crash Trends

2019-2021 Rural CMV Crashes:  
Manner of Crash



# 2019-2021 CMV Rural Crash Trends



# 2019-2021 Safety Portal Rural CMV

AL Crash
CONFIDENTIAL INFORMATION  
This web site is exempt from discovery  
or admission under 625 U.S.C. 409.

Hello, jnorris
Logout

**Dashboard**

Hide Notifs

Date: Custom Date Range  
01/01/2019 - 12/31/2021

Filters: Rural

Filters: jnorris\CMV Involved

Variable: Crash Severity  
Selected: 216 of 9,314 (1 Category)

Value	Count
Fatal Injury	216
Suspected Serious Injury	458
Suspected Minor Injury	937
Possible Injury	581
Property Damage Only	7,091
Unknown	31

Save Map Batch

Search

Drill Down

Scheduled Reports

Monitored Reports

Cross Tab

Resources

Manage Custom Filters

Admin Reports

AL Crash

Primary Contributing Circumstance

Value	Count
DUI	8
E Aggressive Operation	4
E Ran Traffic Signal	1
E Ran Stop Sign	10
E Disregarded Traffic Sign other than Stop Sign	1
Over Speed Limit	17
Driving too Fast for Conditions	12
Made Improper Turn	1
Traveling Wrong Way/Wrong Side	12
E Crossed Centerline	22
E Crossed Median	1
E Ran off Road	5
Followed too Close	3
E Swerved to Avoid Vehicle	2
E Swerved to Avoid Animal	1
E Over Correcting/Over Steering	4
Improper Passing	1
Improper Lane Change/Use	12
Misjudge Stopping Distance	5
Under Minimum Speed	1
Improper Parking/Stopped in Road	5
E Failed to Yield Right-of-Way from Traffic Signal	1

CU CMV Indicator

Value	Count
Yes - CU is a CMV	68
No - CU is Not a CMV	140
CU is Not a Vehicle	6
CU is Unknown	2

E Manner of Crash

AL Crash -- E Manner of Crash  
01/01/2019 - 12/31/2021 | Filter1: Rural | Filter2: jnorris\CMV Involved | Sidebar Variable: Crash Severity | Categories: Fatal Injury

Category	Count
Single Vehicle Crash (all types)	33
Head-On (front to front only)	30
Angle Oncoming (frontal)	10
Angle (front to side) Same Direction	1
Angle (front to side) Opposite Direction	10
Rear End (front to rear)	55
Side Impact (angled)	12
Side Impact (90 degrees)	30
Sideswipe - Same Direction	5
Sideswipe - Opposite Direction	5
Other	5

Highway Classifications

AL Crash -- Highway Classifications  
01/01/2019 - 12/31/2021 | Filter1: Rural | Filter2: jnorris\CMV Involved | Sidebar Variable: Crash Severity | Categories: Fatal Injury

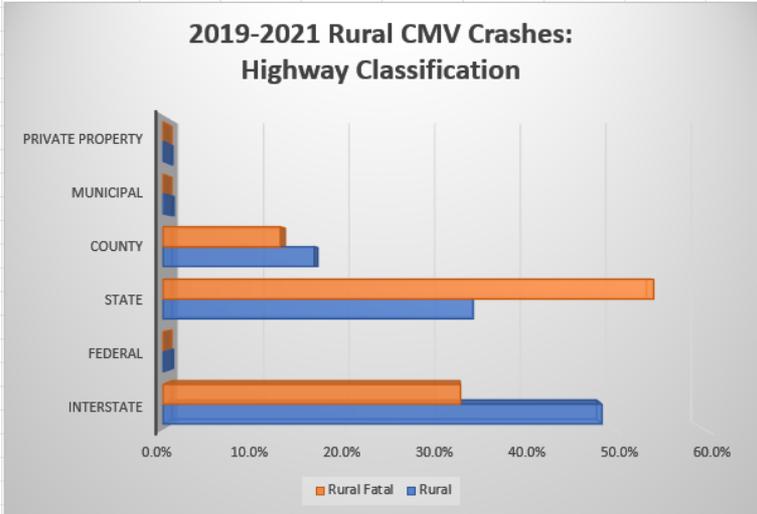
Classification	Count
Interstate	72
State	105
County	24

# 2019-2021 Safety Portal Rural CMV

Values	Counts	Values	Counts
Interstate	71	Interstate	4515
Federal	0	Federal	17
State	117	State	3193
County	28	County	1554
Municipal	0	Municipal	24
Private Property	0	Private Property	11
<b>Total</b>	<b>216</b>	<b>Total</b>	<b>9314</b>

	Rural	Rural Fatal
Interstate	48.5%	32.9%
Federal	0.2%	0.0%
State	34.3%	54.2%
County	16.7%	13.0%
Municipal	0.3%	0.0%
Private Property	0.1%	0.0%



**The Safety Portal is where I go to get all my data.**

**Thank You ATI, CAPS, UA, and Rhonda**

- Questions or Comments
- Come by the CAPS booth
  - Say hello 😊

