



## **NORTH CAROLINA** Department of Transportation

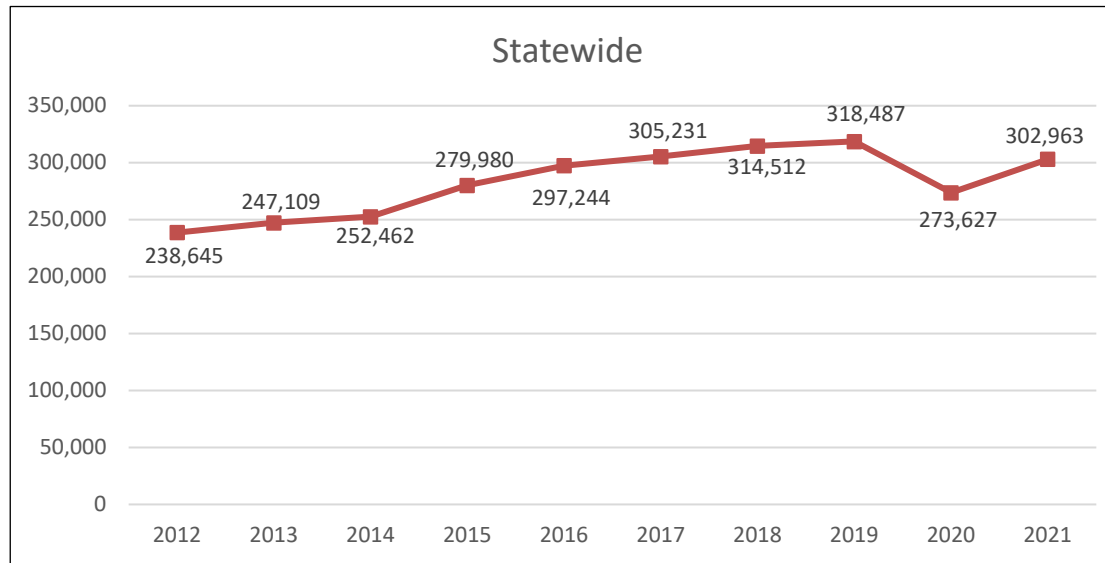


# Robeson County Vision Zero Meeting

Shawn A. Troy, PE

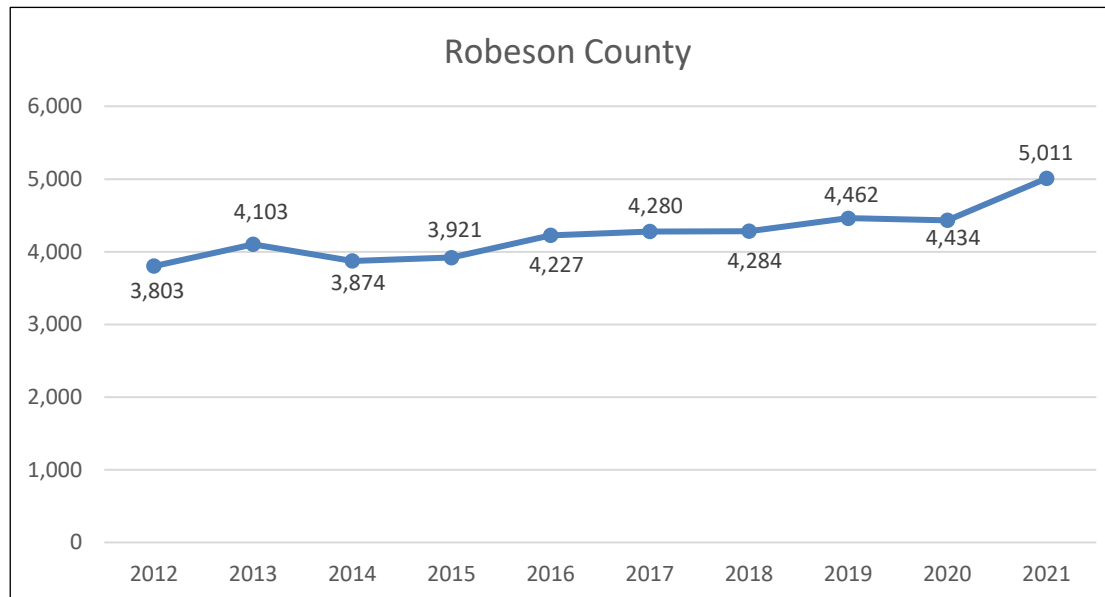
March 24, 2022

# Total Crashes



19-20 = **-14%**

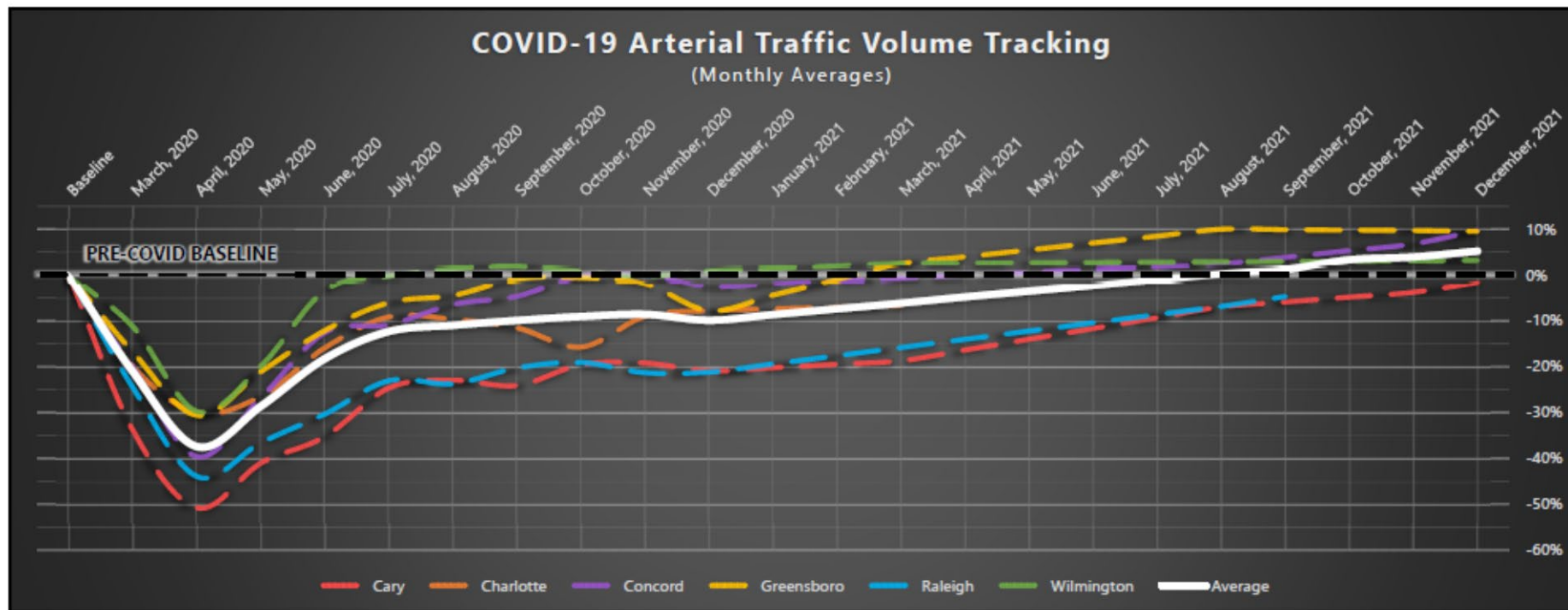
20-21 = **+11%**



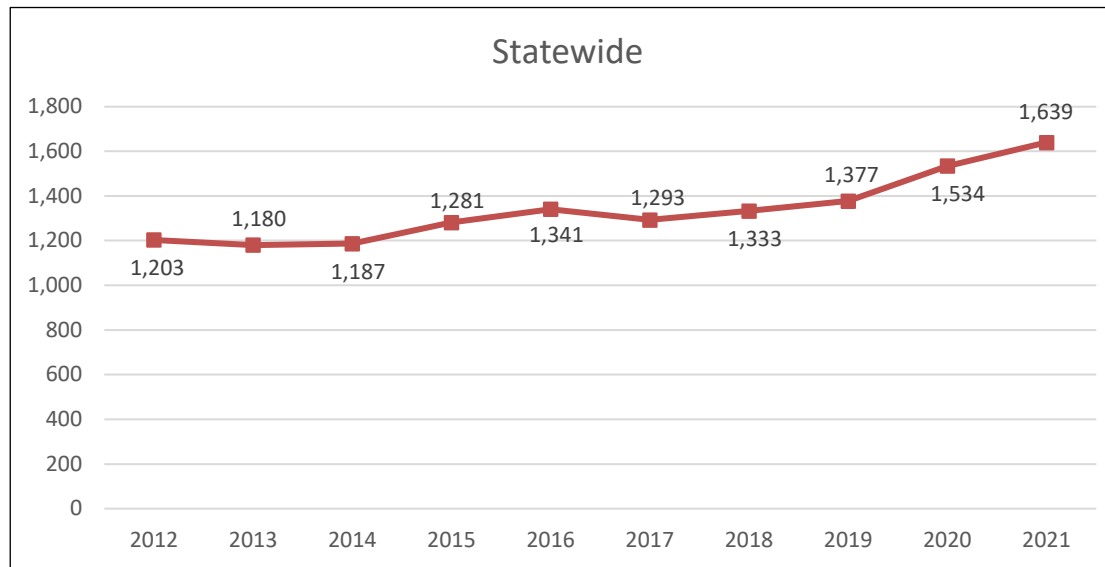
19-20 = **-6%**

20-21 = **+13%**

# COVID Effect on Total Crashes Statewide

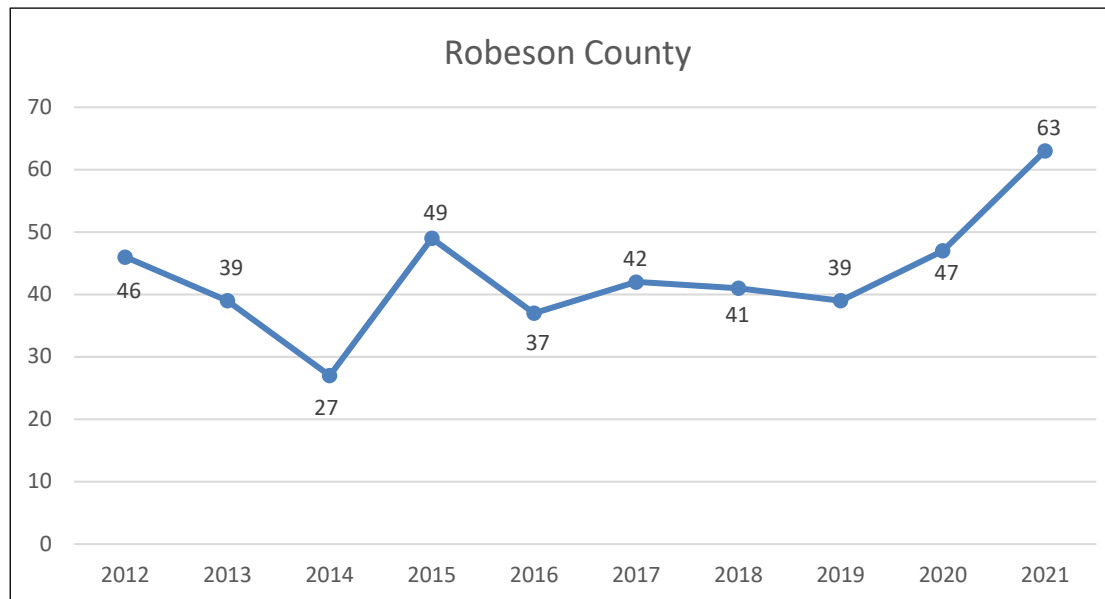


# Fatal Crashes



19-20 = **+11%**

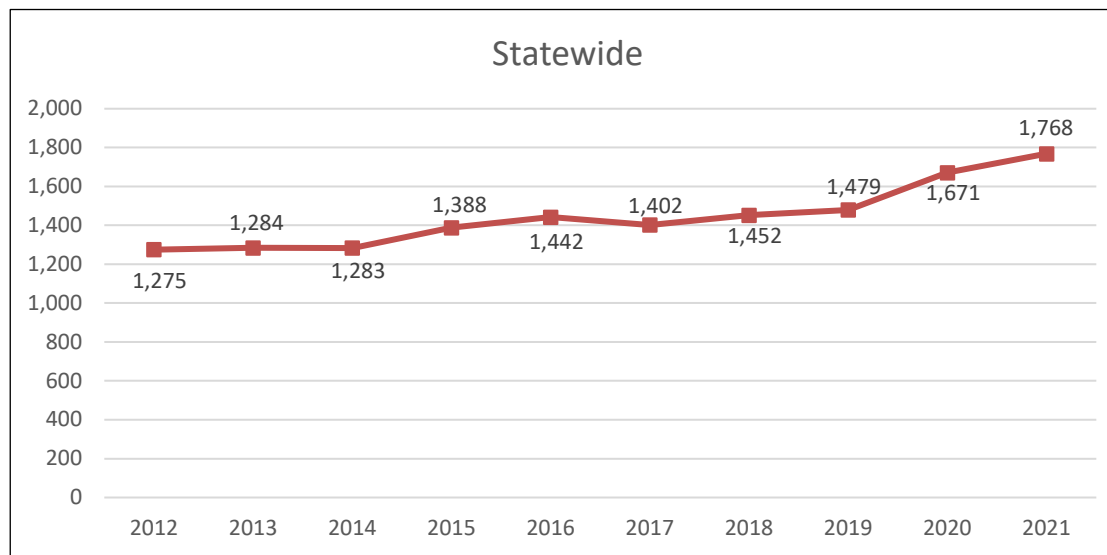
20-21 = **+7%**



19-20 = **+21%**

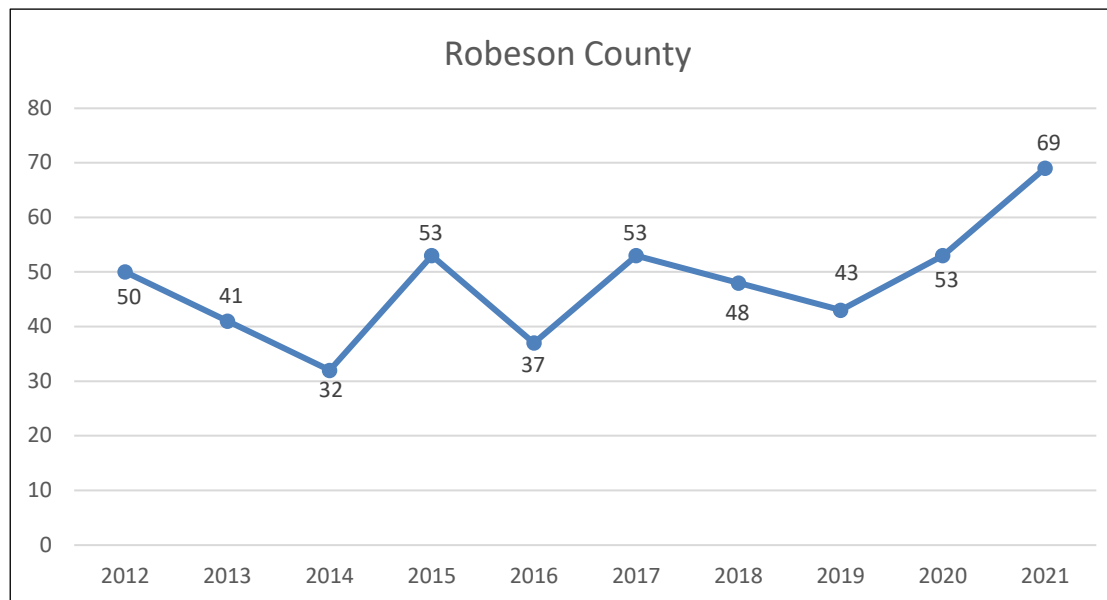
20-21 = **+34%**

# Fatalities



19-20 = **+13%**

20-21 = **+6%**

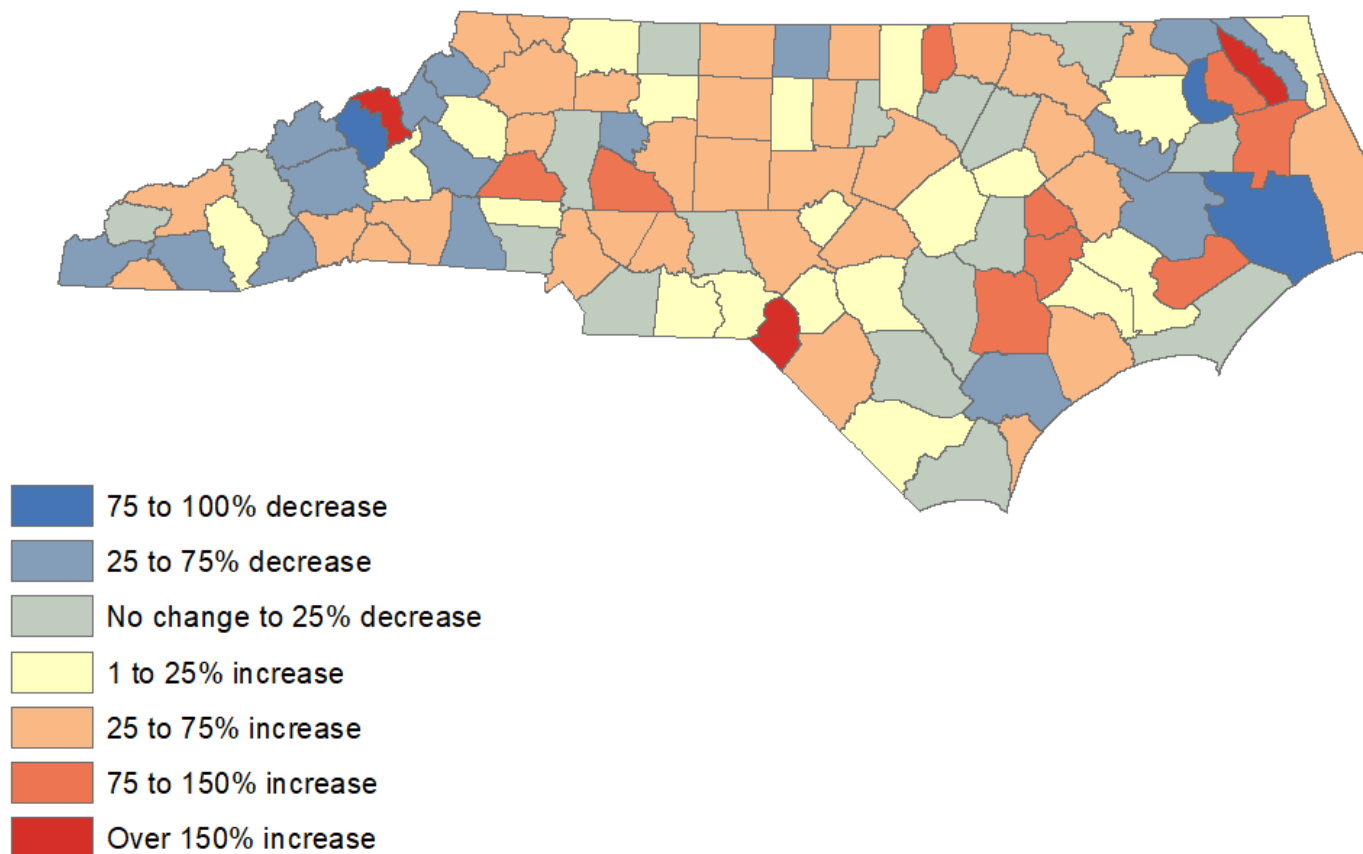


19-20 = **+23%**

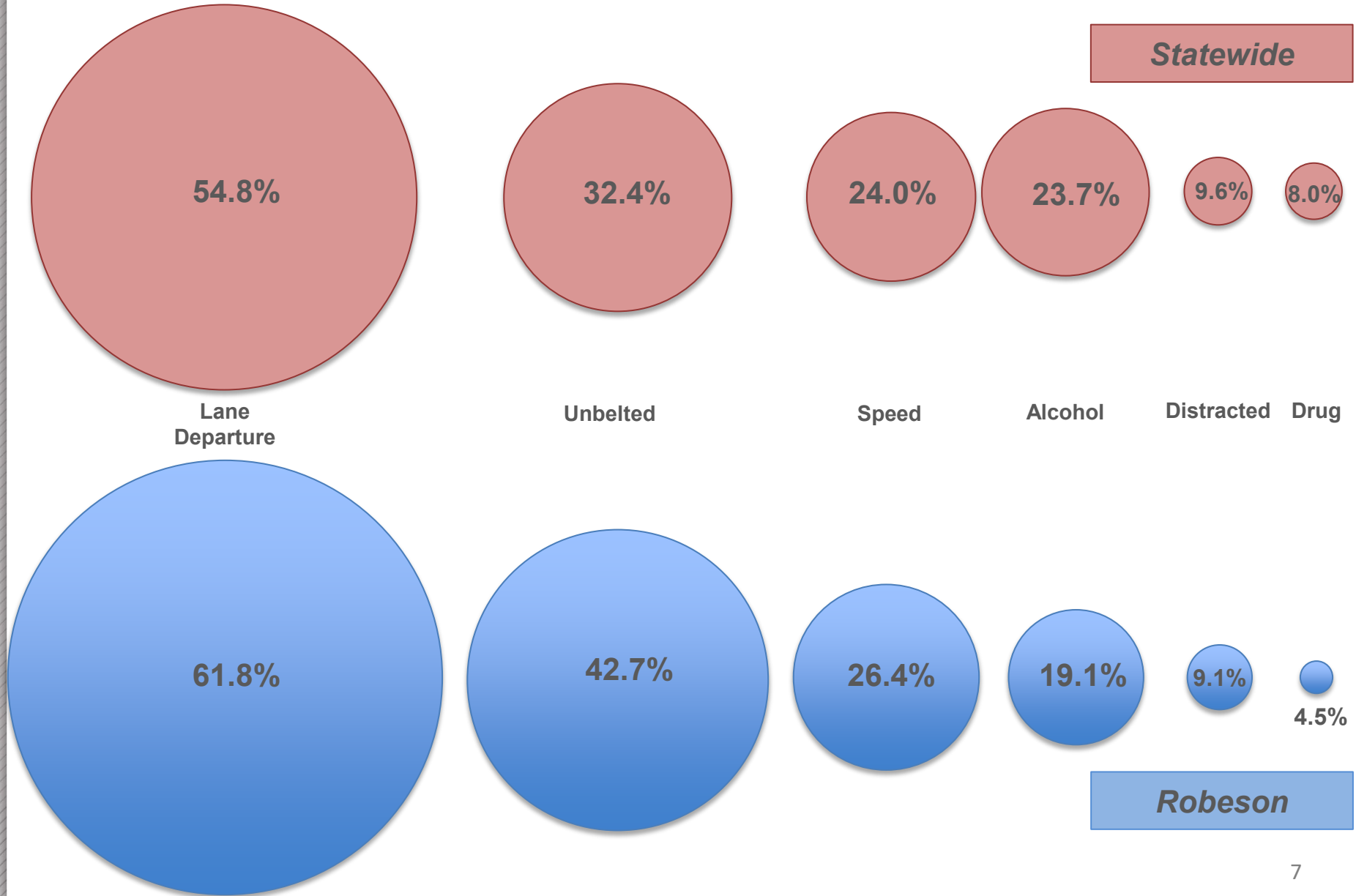
20-21 = **+30%**

# Fatalities – Trend by County

Change in Fatalities by County  
(2021 compared to Pre-Pandemic 5-Year Annual Average)



# Fatal Crashes – 2020 and 2021 – Percent Share





# Fatal Crashes – 2020 and 2021 – Percent Rural

## Statewide

72.8%

Lane  
Departure

68.3%

Unbelted

60.6%

Speed

64.7%

Alcohol

82.4%

## Robeson

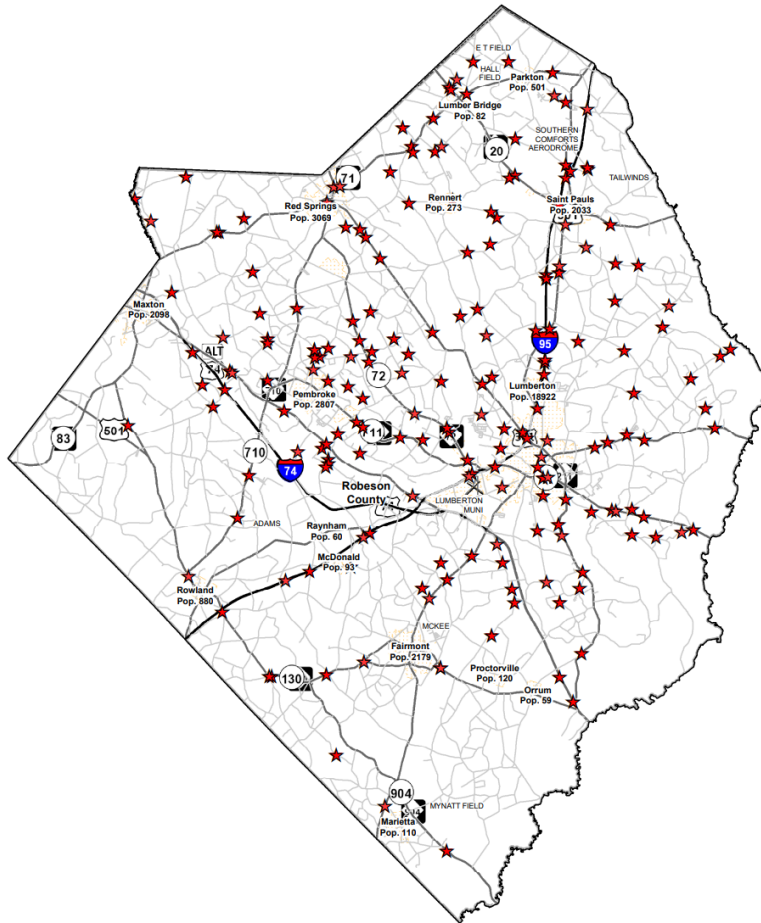
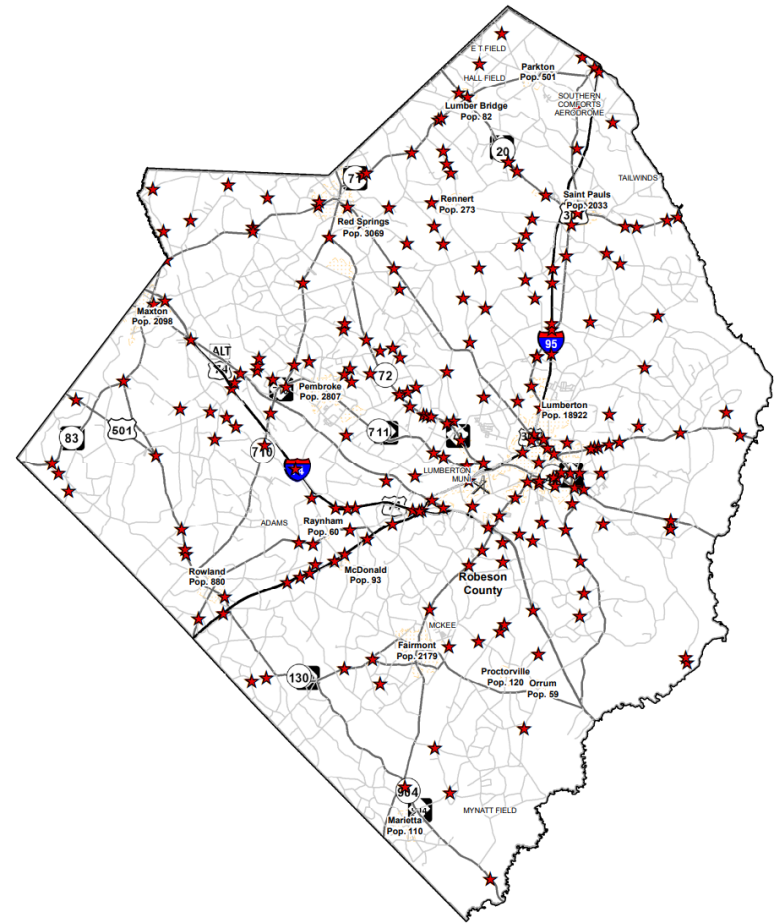
78.7%

79.3%

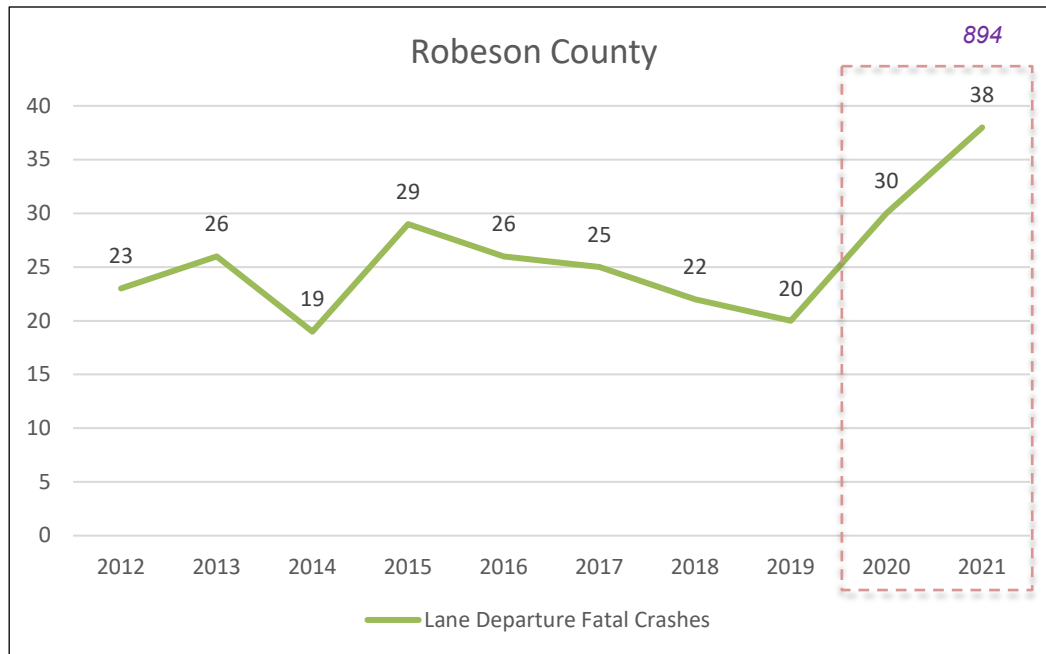
90.5%



# Fatal Crashes Mapped

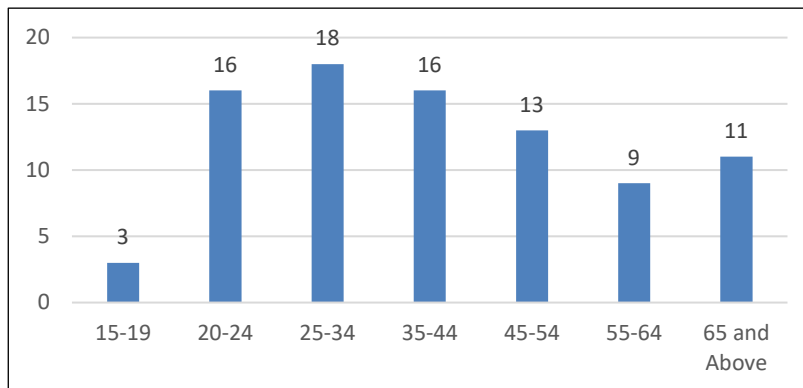
**2012-2016****88.8% Rural****2017-2021****82.3% Rural**

# Lane Departure Fatal Crashes

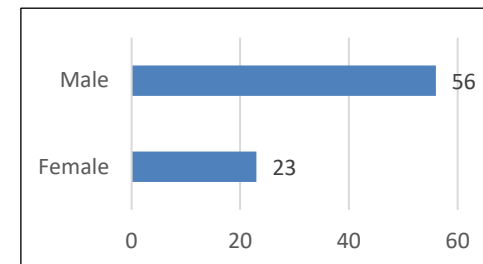


Route Class	Crashes	% of Total
INTERSTATE	6	8.8
US	7	10.3
NC	18	26.5
SR	33	48.5
LCL	4	5.9
<b>Total</b>	68	

Speed Limit	Crashes	% of Total
70	3	4.4
65	5	7.4
55	48	70.6
45	5	7.4
35	6	8.8
25	1	1.5
20	0	0.0
<b>Total</b>	68	

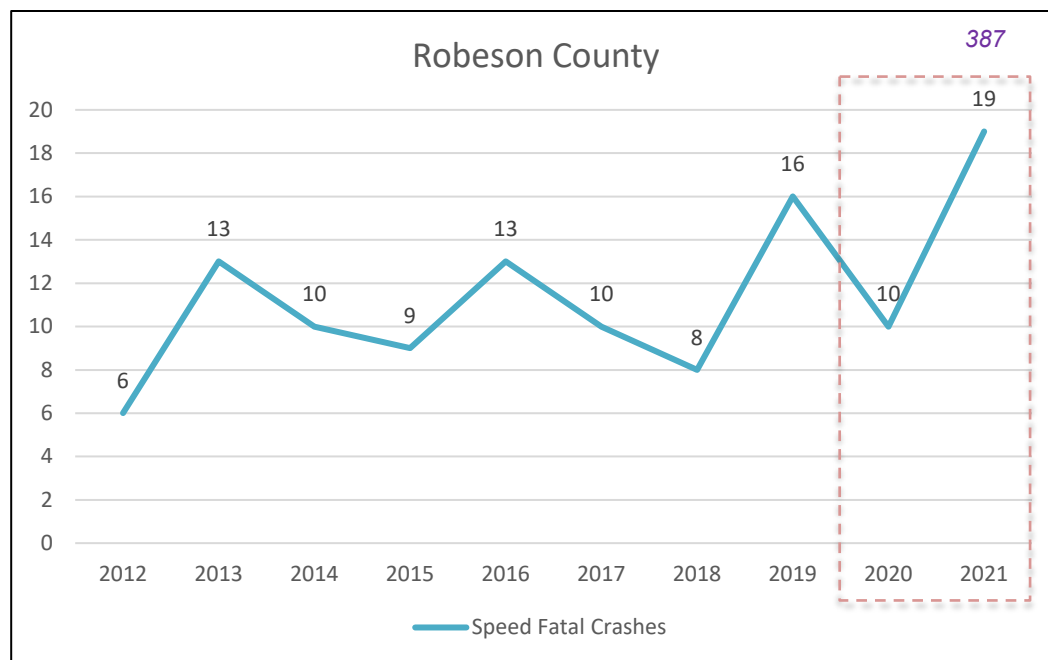


\* Includes all Drivers in Crash



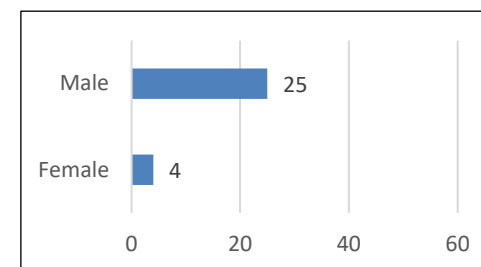
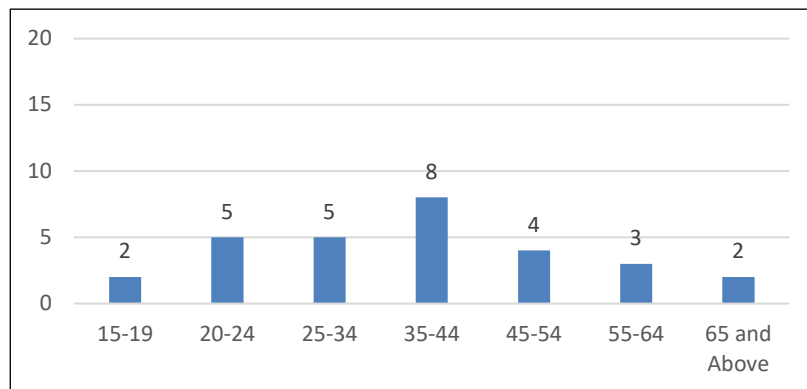
\* Includes all Drivers in Crash

# Speed Fatal Crashes

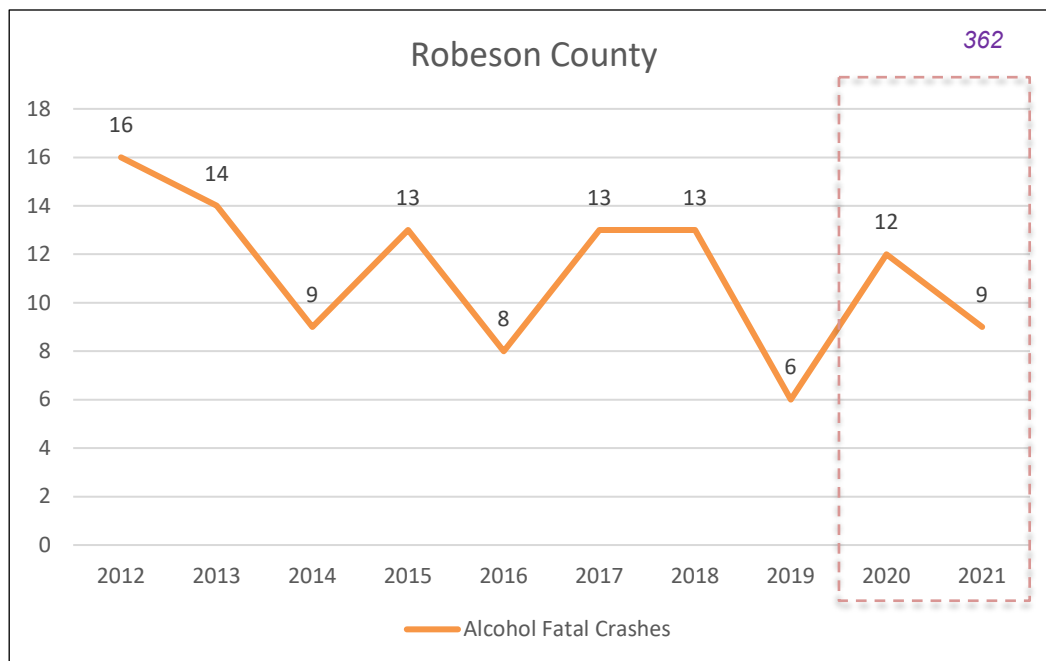


Route Class	Crashes	% of Total
INTERSTATE	1	3.4
US	3	10.3
NC	9	31.0
SR	15	51.7
LCL	1	3.4
<b>Total</b>	29	

Speed Limit	Crashes	% of Total
70	2	6.9
65	0	0.0
55	20	69.0
45	3	10.3
35	4	13.8
25	0	0.0
20	0	0.0
<b>Total</b>	29	

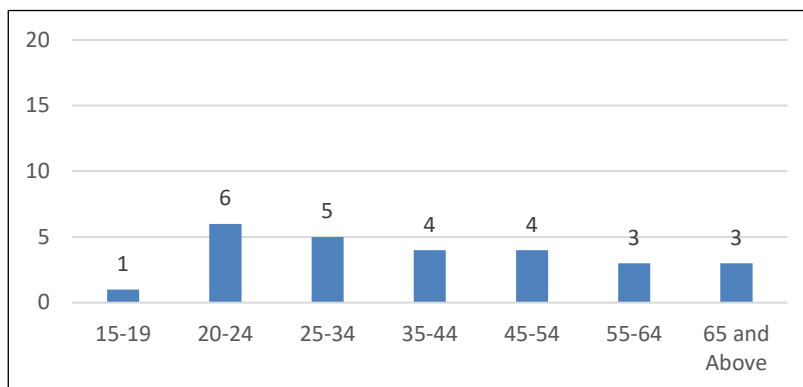


# Alcohol Fatal Crashes \*\*

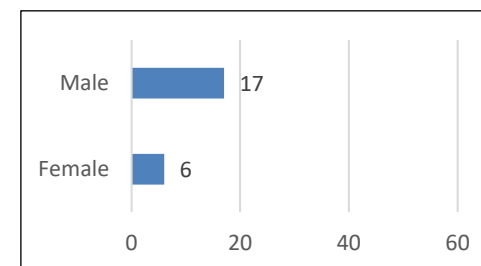


Route Class	Crashes	% of Total
INTERSTATE	2	9.5
US	1	4.8
NC	7	33.3
SR	11	52.4
LCL	0	0.0
<b>Total</b>	21	

Speed Limit	Crashes	% of Total
70	2	9.5
65	1	4.8
55	15	71.4
45	1	4.8
35	2	9.5
25	0	0.0
20	0	0.0
<b>Total</b>	21	

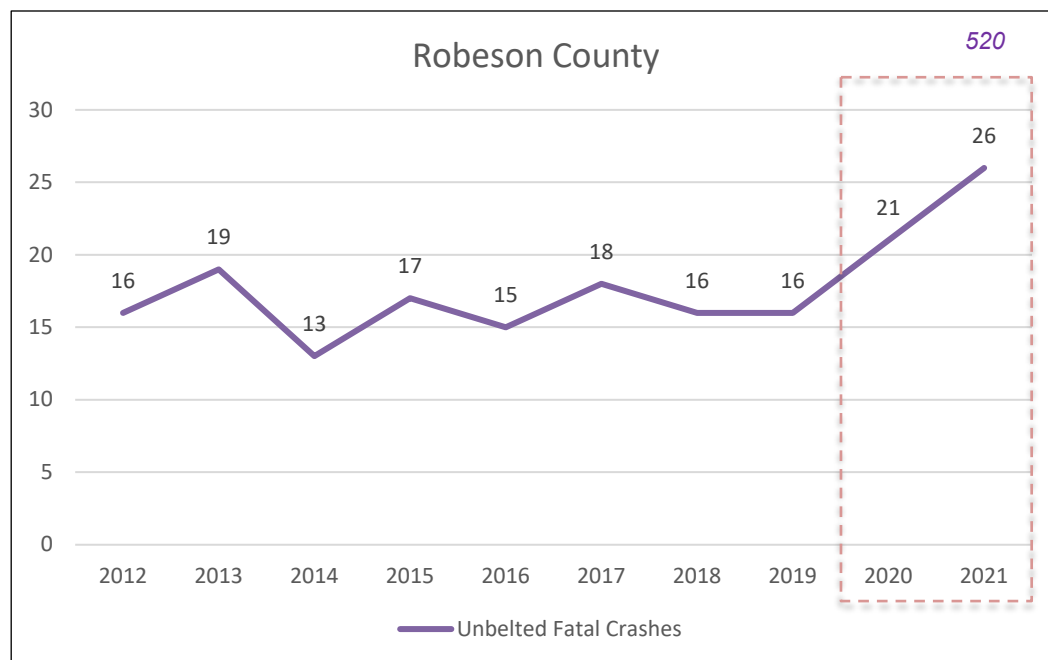


\* Includes all Drivers in Crash



\* Includes all Drivers in Crash

# Unbelted Fatal Crashes



Route Class	Crashes	% of Total
INTERSTATE	5	10.6
US	3	6.4
NC	12	25.5
SR	23	48.9
LCL	4	8.5
<b>Total</b>	47	

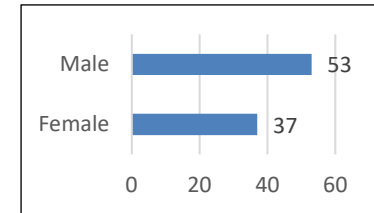
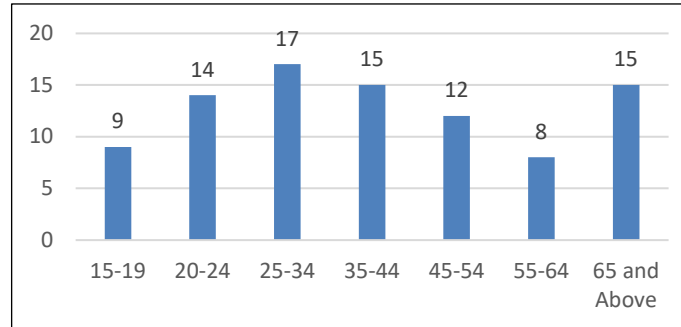
Speed Limit	Crashes	% of Total
70	2	4.3
65	3	6.4
55	33	70.2
45	4	8.5
35	4	8.5
25	1	2.1
20	0	0.0
<b>Total</b>	47	

# Unbelted Fatalities – 2020 and 2021

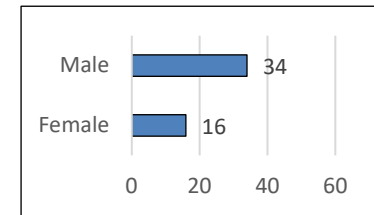
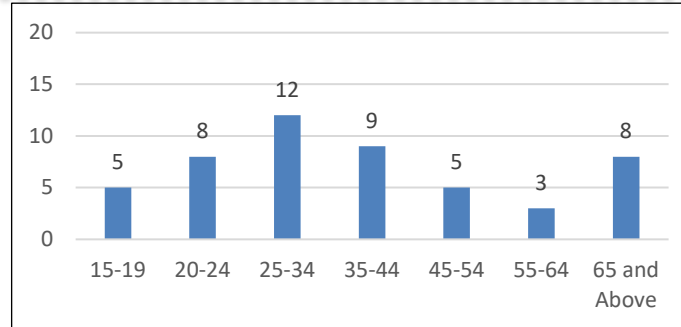
122 Fatalities



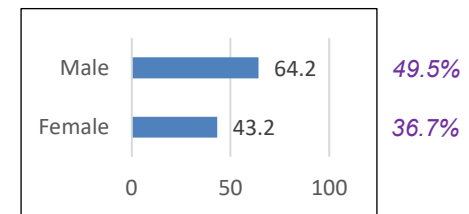
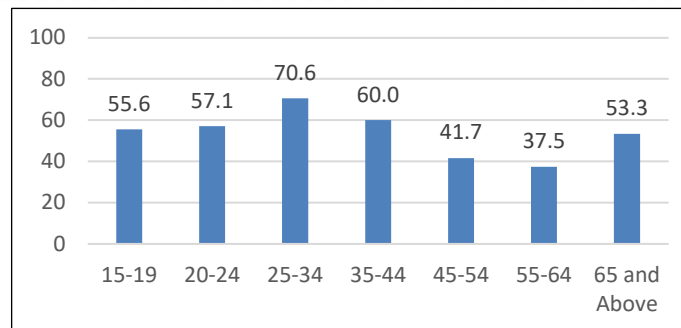
90 Fatalities in  
Vehicles/Seats with Belts



50 Fatalities that were  
Unbelted



% of Unbelted that had  
Opportunity for Belts

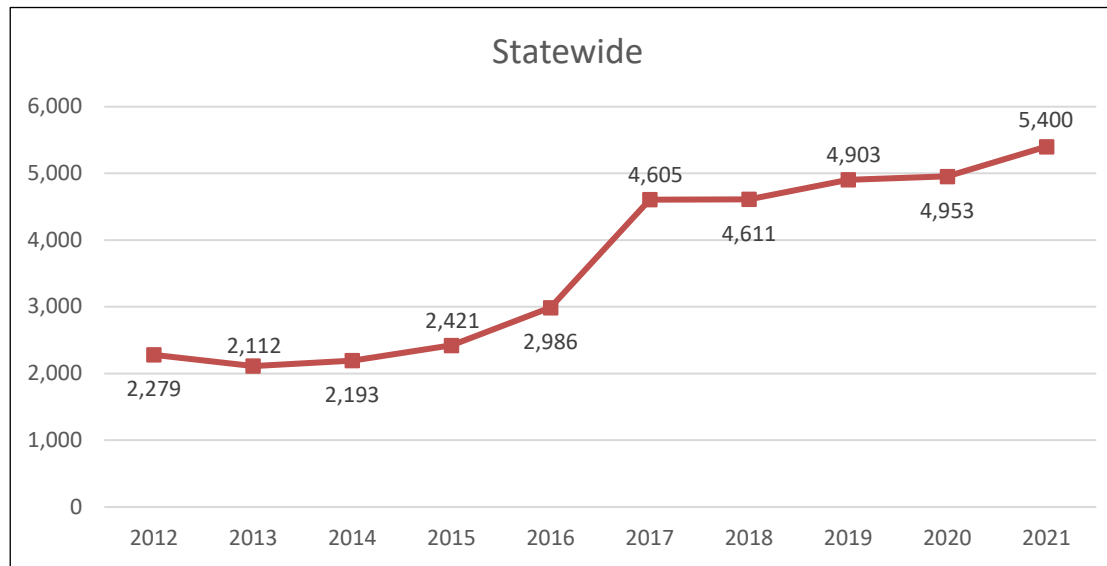


# Robeson County Fatal Crash Data Summary

- General comments for 2020 and 2021 fatal crashes
  - Approximately 77% are in rural areas
  - Approximately 75% occur on NC and SR roads
  - Approximately 65% occur on 55 MPH roads
- Unbelted occupants are a contributing factor within the fatalities
  - Age group of 25-34 has most
  - All age groups are over 50% unbelted except 45-54 and 55-64
  - 64% of males are unbelted and 43% of females are unbelted, both are more than statewide percentages
  - Assuming we could achieve a 50% increase in seat belts usage, in 2020 and 2021 there may have been 25 less fatalities
- Speed is a contributing factor within the crashes
  - Speed plays a role in lane departure crashes; and with alcohol use and/or being unbelted.....these can make crash survivability outcomes worse

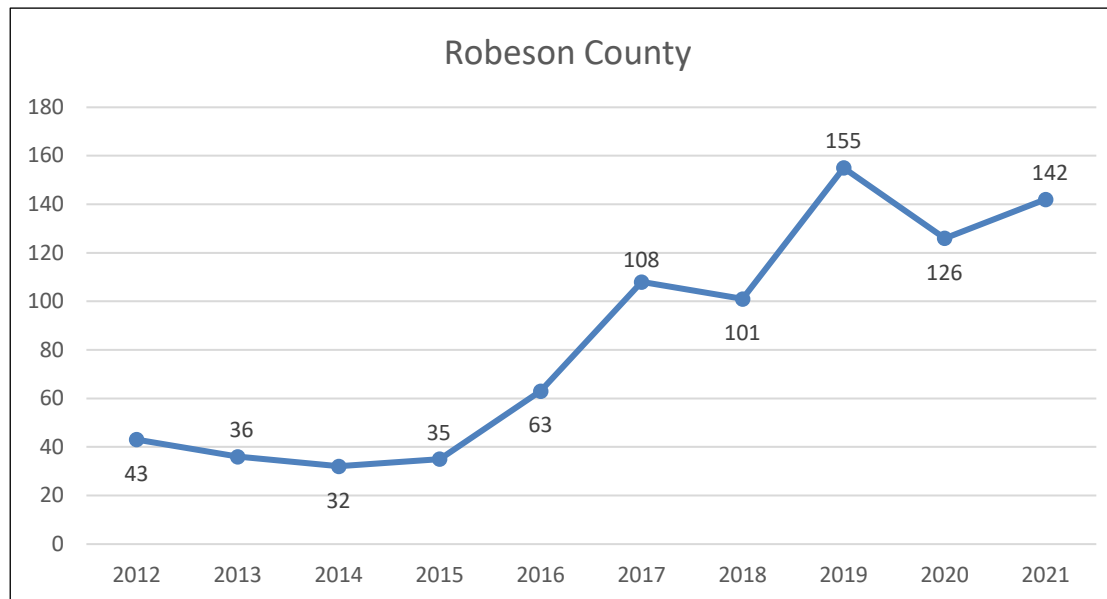


# Serious Injuries



19-20 = **+1%**

20-21 = **+9%**



19-20 = **-19%**

20-21 = **+13%**

# Countermeasure Implementations

- Traffic Safety Efforts since 2017
  - 26 routes and 208 curves reviewed for curve chevron signing
  - 66 routes with long life markings (~220 miles)
  - 8 section projects funded
    - curve superelevation improvements, guardrail, and rumble stripes
  - 55 routes reviewed under statutory speed limit review program (~320 miles)
  - 25 intersection projects funded
    - All way stop, left turn lane, signal, signal revisions, roundabout, and flasher
  - Pedestrian safety studies for Lumberton and Pembroke
  - Other great maintenance efforts from Division 6 team are not summarized
- Continue Efforts in the 4 E's
  - Engineering, Enforcement, Education, and Emergency Response
  - Every person plays a role: slow down, drive defensively, never drive distracted or impaired, and always buckle up in every seat of the vehicle

# Questions / Discussion

