# STUDY AREA & GOALS

## Study Goals

- Develop an attractive and cohesive transportation plan that creates a safer environment for residents and broader community
- Develop a holistic program of improvements that addresses all modes of transportation
- Foster public involvement to build consensus and establish stakeholder support
- Determine most effective traffic calming methods to reduce traffic speeds
- Provide safe access to transit facilities and ensure improvements address transit operations
- Consider environmental, community, and economic issues through the PEL process to inform decision making and NEPA

# PEDESTRIAN & TRANSIT FACILITIES

DART REIMAGINED

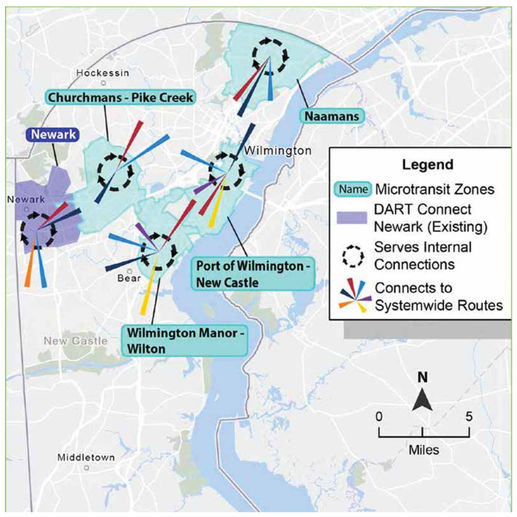
- DART conducted a system-wide evaluation of its services, called DART Reimagined.
- This study recommended that the Route 28 be rerouted from Trolley Square and the Augustine Cut-Off, instead traveling through the downtown and up 18th Street, similar to the Route 2.
- There is not a projected timeline for this change yet at this time.

## Microtransit Zones

DART Connect microtransit zones will provide local circulation in lower-density neighborhoods that are difficult to efficiently serve with fixed route buses.

### Key Highlights

- Four new microtransit zones
- Expands population and job access
- Replaces low-frequency routes - reduces time spent waiting for the bus
- The Augustine Cut Off Corridor is not located in one of the new microtransit zones



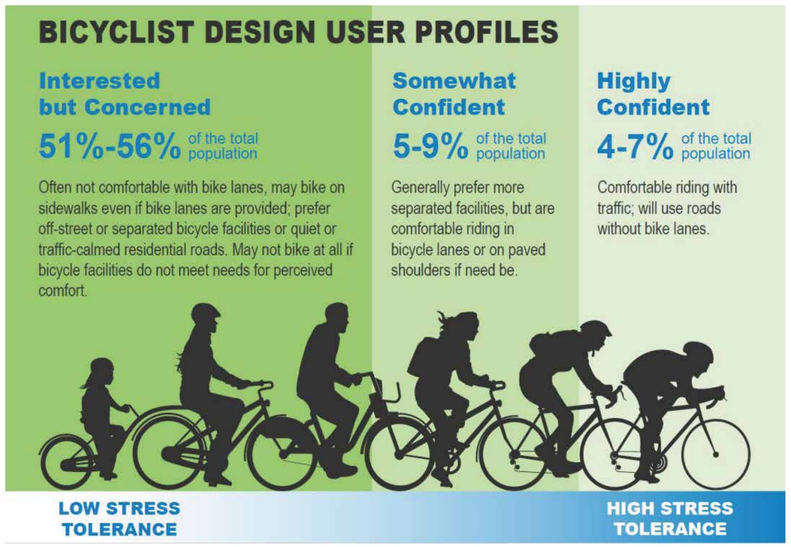
# BICYCLE FACILITIES & LEVEL OF TRAFFIC STRESS

## How Traffic Stress is Measured

Level of Traffic Stress analysis uses factors such as the speed of traffic, volume of traffic, and the number of lanes to rate each roadway segment on a scale of 1 to 4, where 1 is a low-stress place to ride and 4 is a high-stress place to ride.

## Types of Bike Riders

Bicyclists have different levels of stress tolerance. Riders who are "interested but concerned" have a lower tolerance for stress, and ride on lower-stress roadways (LTS 1-2). Riders who are "somewhat confident" can tolerate up to LTS 3 streets. "Highly confident" riders, also known as "strong and fearless," are comfortable riding on any roadway if necessary, although they may choose lower-stress routes if possible.




Note: Above percentages reflect only adults who have stated an interest in biking
Source: Federal Highway Administration Bikeway Selection Guide

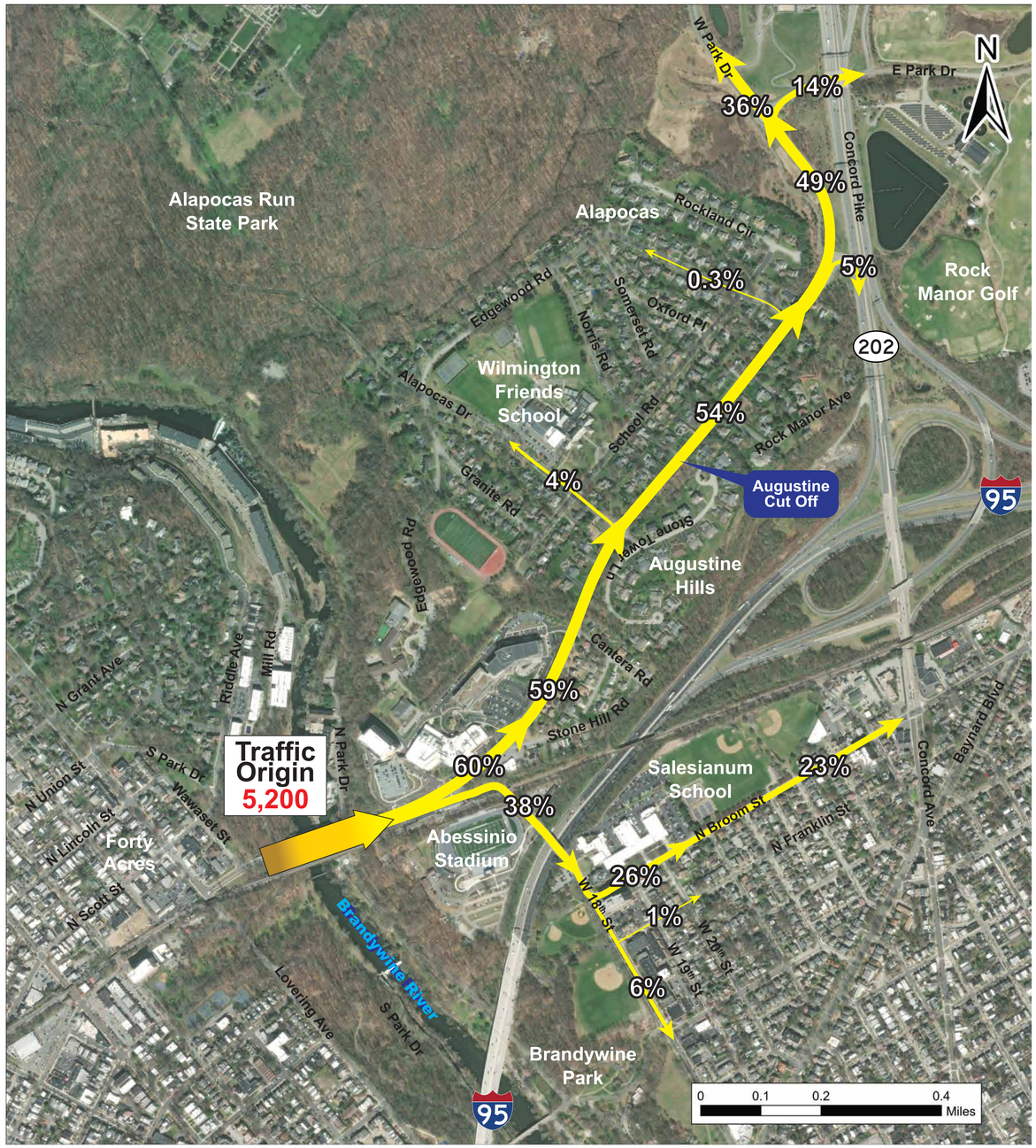
The Blueprint for a Bicycle-Friendly Delaware, Delaware's bicycle policy plan, recommends using the LTS methodology to:

- Evaluate and improve the design of proposed projects
- Improve bicycle network design

# VEHICLE ORIGIN / DESTINATION

## Destination of Daily Vehicles Entering Augustine Cutoff from North (Weekdays Mon - Thurs)

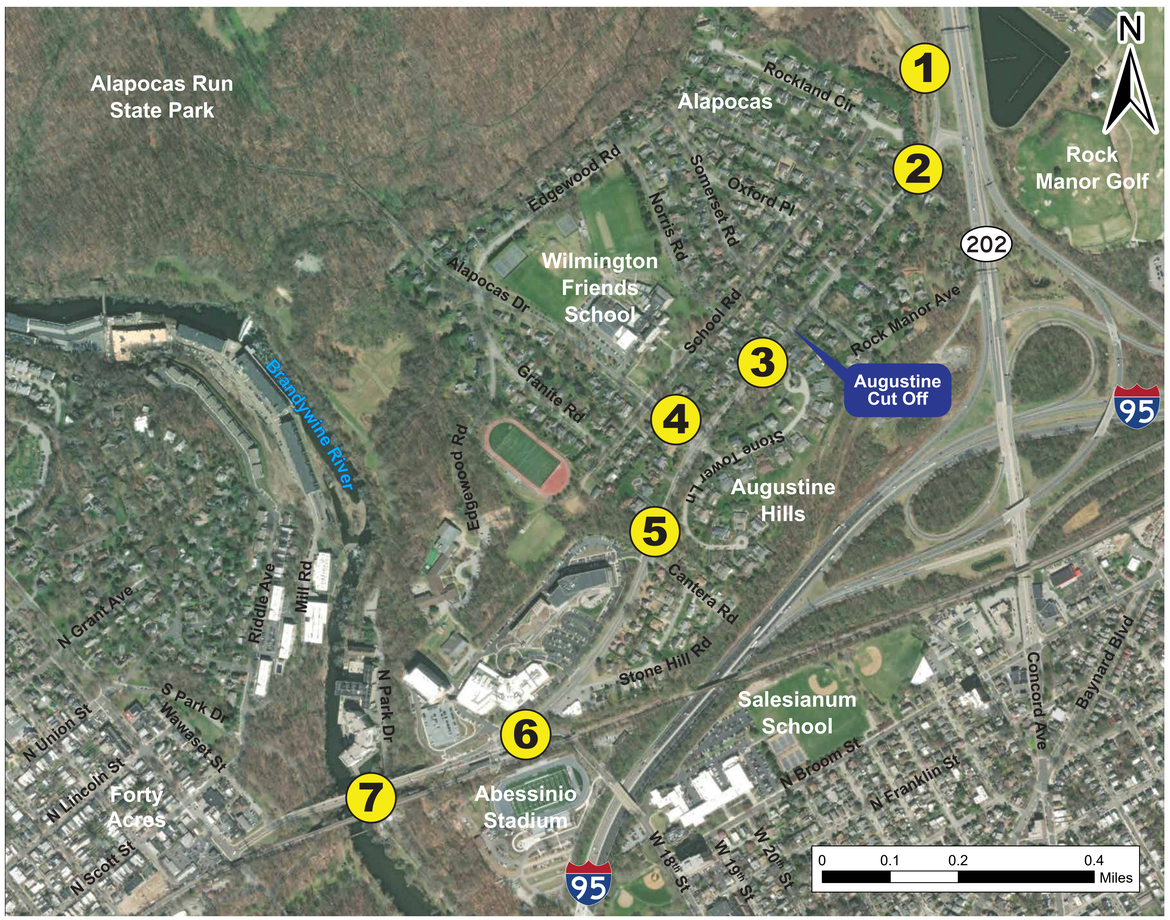
## Destination of Daily Vehicles Entering Augustine Cutoff from South (Weekdays Mon - Thurs)



# SPEED AND CRASH DATA

## Average Speeds Along Select Road Segments (Weekdays Monday - Thursday)

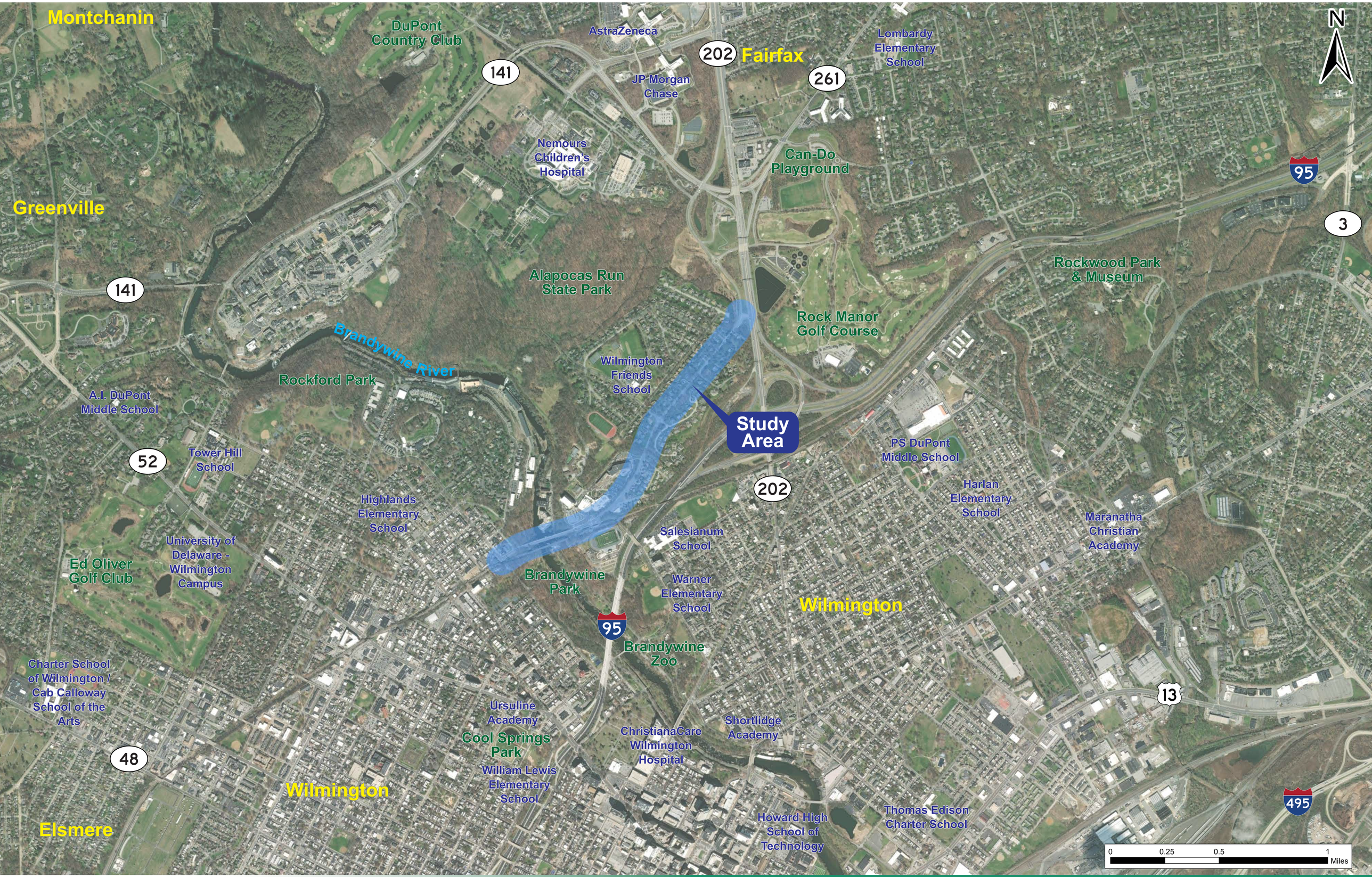
| Map ID | Location | Early AM (6-9am) | | PM Peak (3-6pm) | | Late Evening (9-11pm) | |
|---|---|---|---|---|---|---|---|
| | | Avg. Travel Speed | 95th Percentile Speed | Avg. Travel Speed | 95th Percentile Speed | Avg. Travel Speed | 95th Percentile Speed |
| 1 | West Park Dr. SB | 31 | 41.3 | 31 | 40 | 31 | 43 |
| | West Park Dr. NB | 31 | 40.3 | 28.3 | 38.3 | 31 | 41.7 |
| 2 | Augustine Cut Off N. of Edgewood SB | 34 | 43.7 | 33.3 | 42 | 34 | 45 |
| | Augustine Cut Off N. of Edgewood NB | 35.3 | 45.7 | 33.7 | 43.7 | 35 | 46.7 |
| 3 | Augustine Cut Off N. of Alapocas SB | 38 | 49.3 | 36 | 46.7 | 38 | 50 |
| | Augustine Cut Off N. of Alapocas NB | 38 | 49 | 36 | 46.7 | 38 | 50.3 |
| 4 | Alapocas Drive SB | 18.3 | 29.3 | 17.3 | 27.7 | 19.7 | 28.7 |
| | Alapocas Drive NB | 20.3 | 32.3 | 18.7 | 30.3 | 21.3 | 31.7 |
| 5 | Augustine Cut Off N. of Canter Rd. SB | 36 | 46.3 | 35 | 45.3 | 36.7 | 49.7 |
| | Augustine Cut Off N. of Canter Rd. NB | 34.7 | 46 | 31 | 43 | 35 | 47.3 |
| 6 | Augustine Road near 18th St. SB | 26.7 | 46 | 24.3 | 43.3 | 27.7 | 50.7 |
| | Augustine Road near 18th St. NB | 32.7 | 45 | 30 | 42.3 | 31.7 | 47.7 |
| 7 | Augustine Road at Brandywine Cr. SB | 35.7 | 46.3 | 33 | 44.3 | 35 | 48.3 |
| | Augustine Road at Brandywine Cr. NB | 34 | 45 | 32.3 | 43.3 | 34 | 47.3 |




## Crashes Along Augustine Cut Off by Impact Type (2019-2024)

# WHERE DO YOU: LIVE, WORK, PLAY?

**Place YELLOW stickers where you live, RED stickers where you work / go to school, and GREEN stickers where you play**




# AUGUSTINE CUT OFF MULTIMODAL IMPROVEMENTS STUDY, PHASE 2

WRA MARCH 2025

NEW CASTLE COUNTY