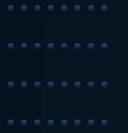




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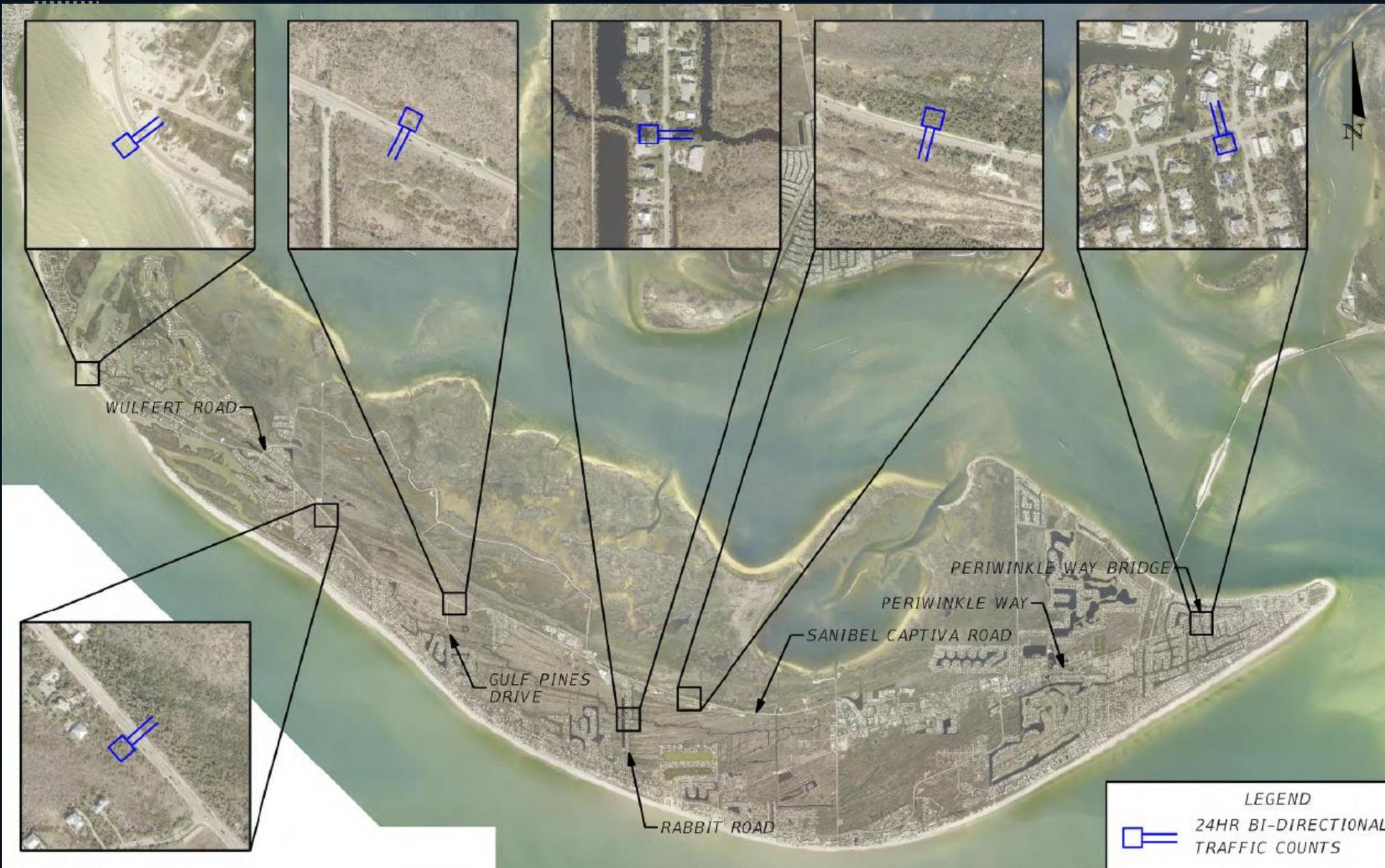


# Sanibel Island Roadway Speed Study

March 3, 2026

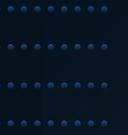


# Data Collection Map



Data Collection:  
November 19, 2025  
December 9, 2025

# Percentile Speed



## What is it?

The 85th percentile speed is the speed at or below which **85% of motorists drive** under free-flowing conditions. It represents the speed that the majority of drivers consider safe and reasonable for a given section of road.

## The Engineering Logic

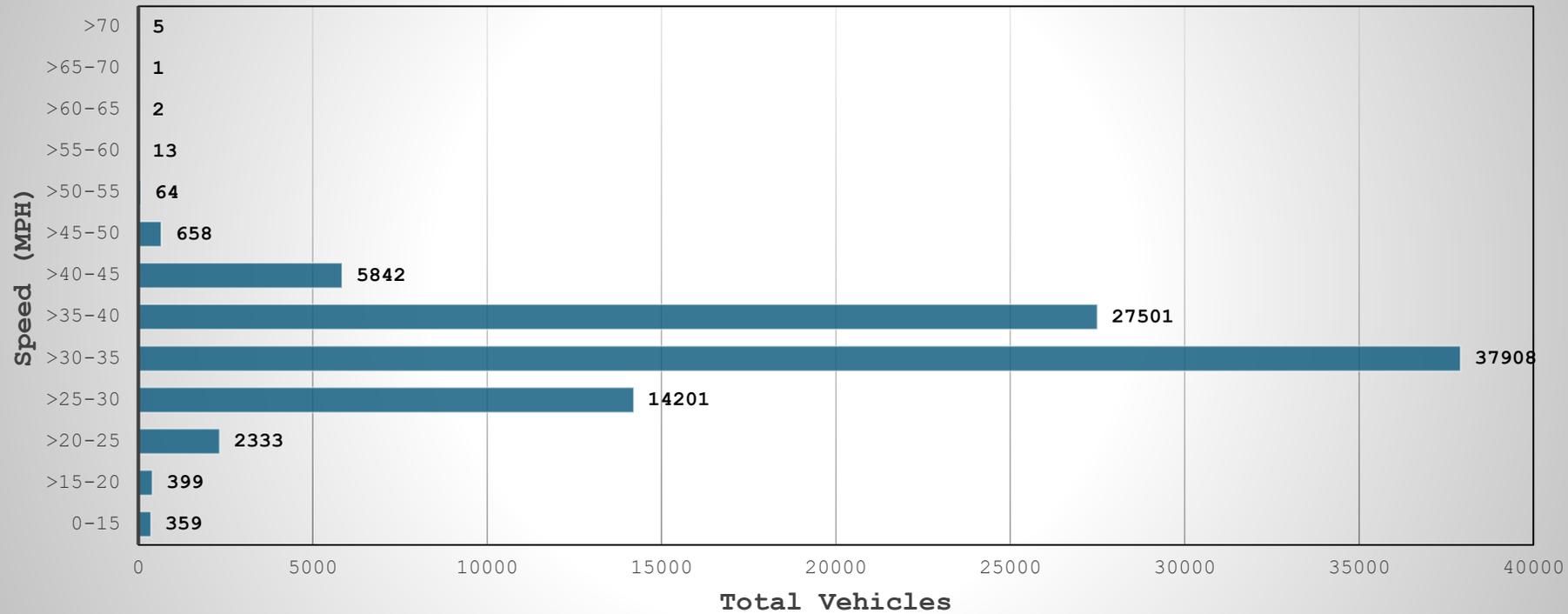
**Self-Governing Behavior:** Most drivers naturally adjust their speed based on road geometry, visibility, and surroundings.

**Targeting the Outliers:** Speed limits set at this level target the "reckless" top 15% of drivers while acknowledging the behavior of the prudent majority.

**Uniformity:** Setting limits near this percentile minimizes speed variance (the difference between the fastest and slowest cars), which is a leading cause of crashes.

# Speed Results

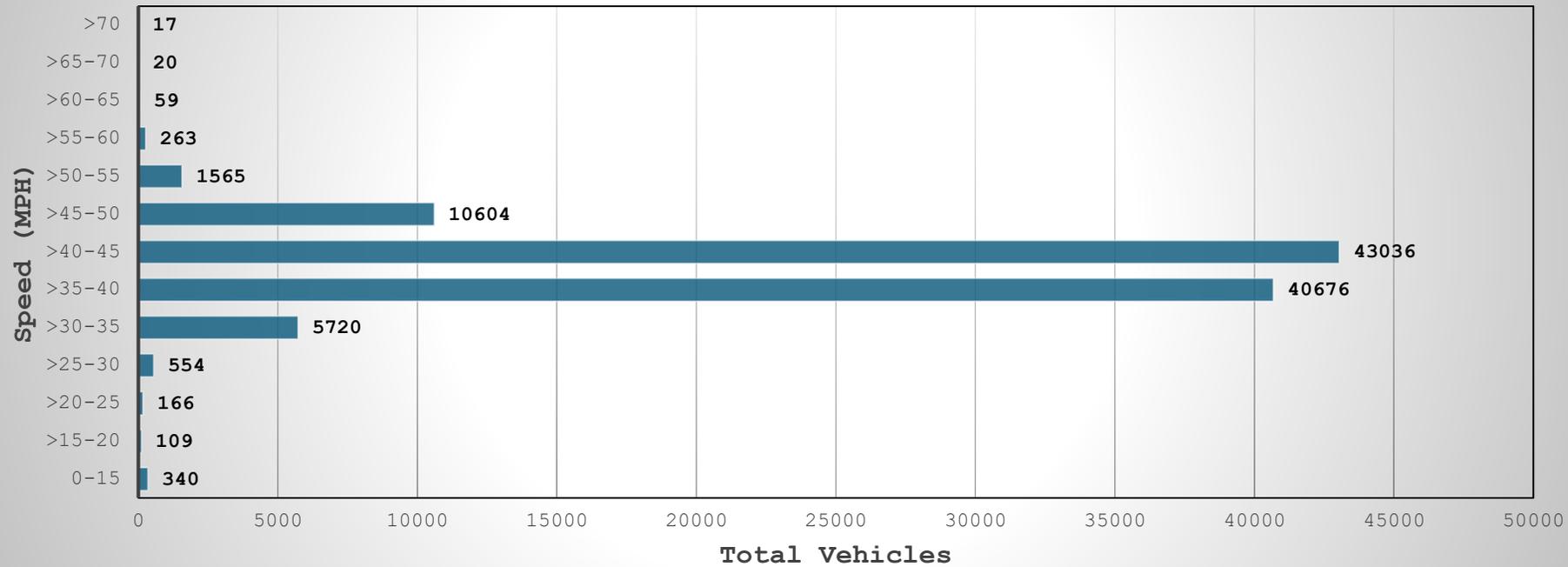
Sanibel Captiva Road East of Pine Avenue Speed Data



85<sup>th</sup> Percentile: 37 mph  
Speed Limit: 35 mph

# Speed Results

Sanibel Captiva Road West of Buckthorn Lane Speed Data

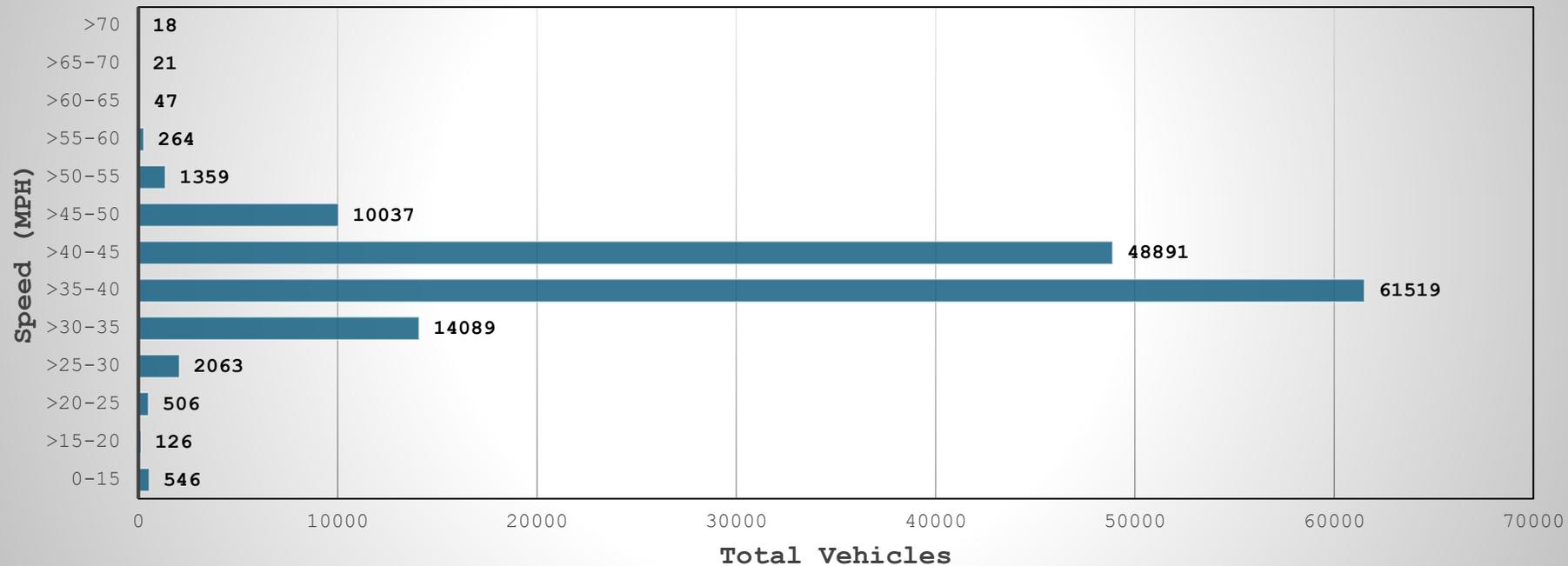


85<sup>th</sup> Percentile: 43 mph

Speed Limit: 35 mph

# Speed Results

Sanibel Captiva Road East of Gulf Pines Drive Speed Data

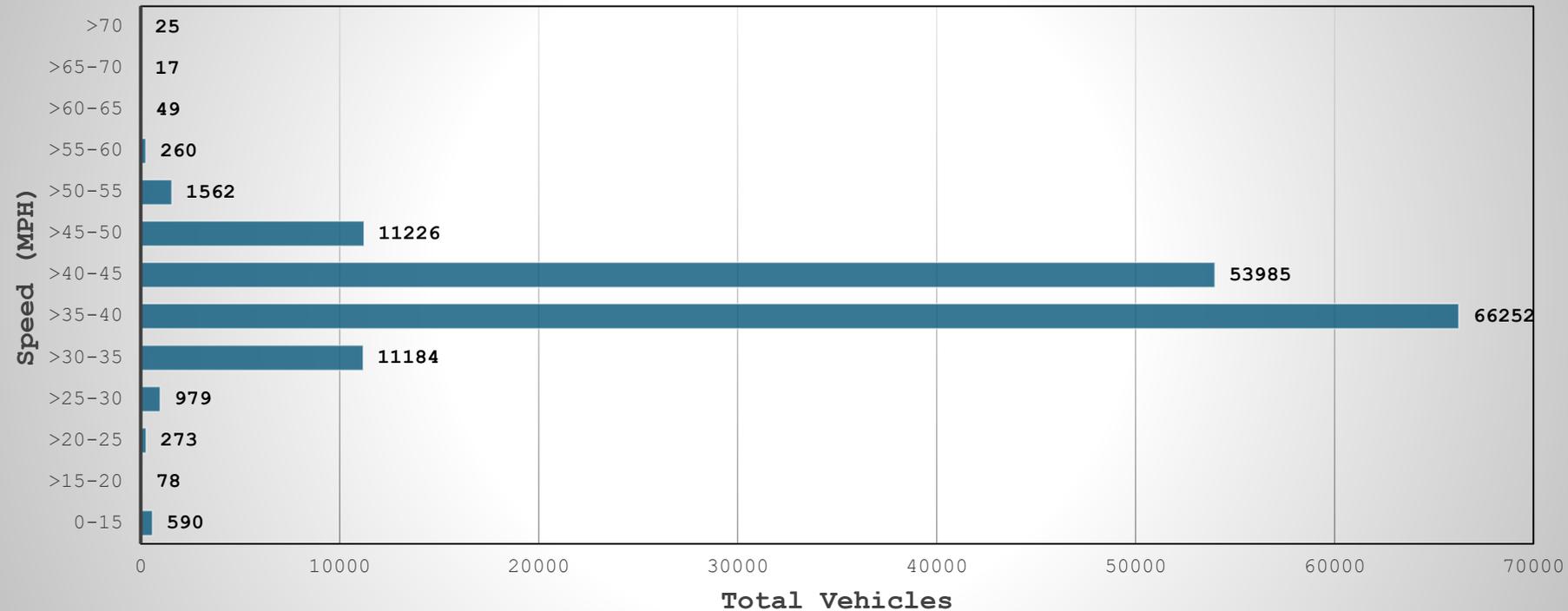


85<sup>th</sup> Percentile: 42 mph

Speed Limit: 35 mph

# Speed Results

Sanibel Captiva Road East Rabbit Road Speed Data

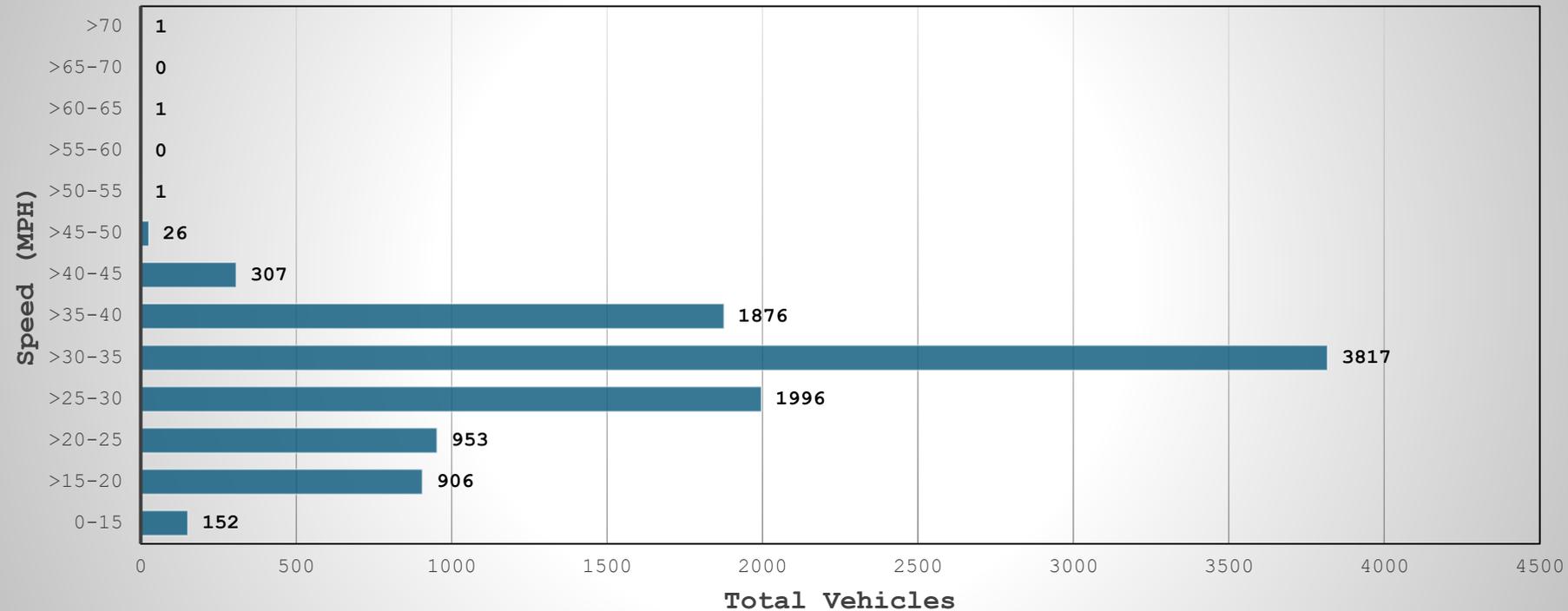


85<sup>th</sup> Percentile: 43 mph

Speed Limit: 35 mph

# Speed Results

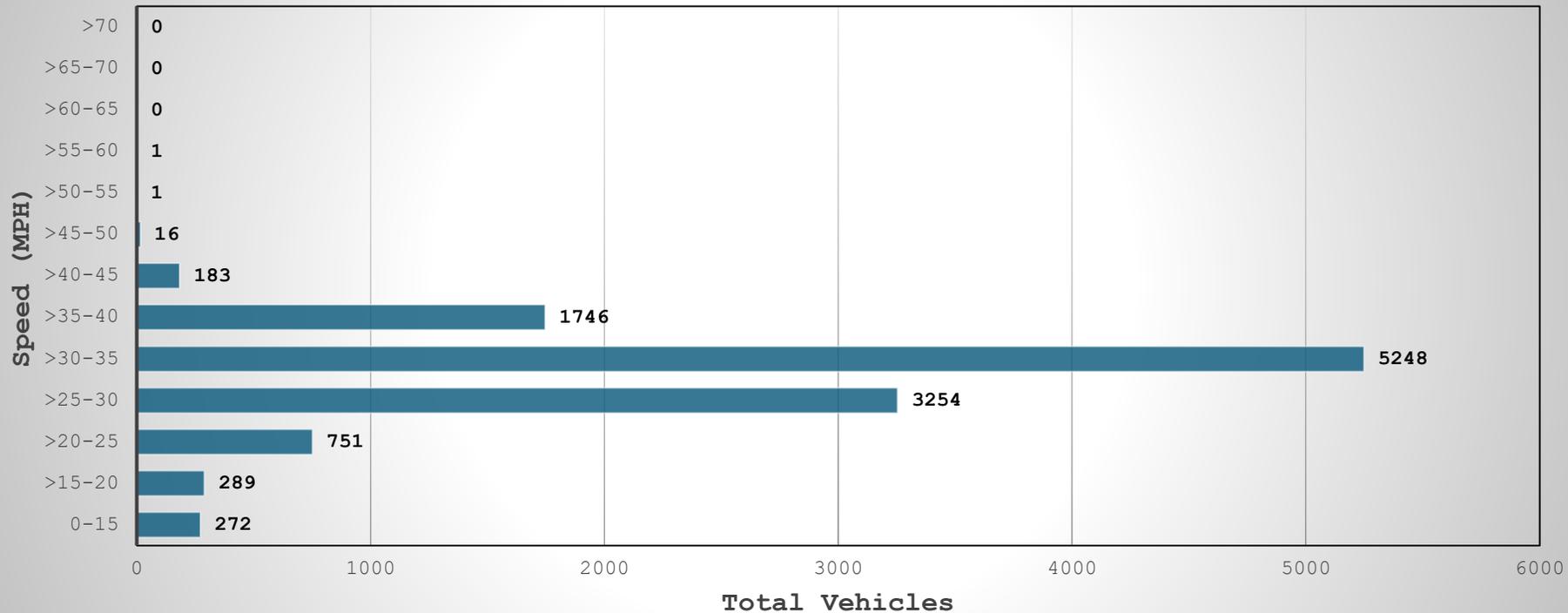
Periwinkle Way Speed Data



85<sup>th</sup> Percentile: 35 mph  
Speed Limit: 35 mph

# Speed Results

Rabbit Road Speed Data



85<sup>th</sup> Percentile: 34 mph  
Speed Limit: 30 mph

# Consideration

**Speed Limit Harmonization:** Consider adding additional speed limit signs. Spacing to be at intervals based on speed and areas after major intersections.

**Infrastructure Modifications (Traffic Calming):** If speed limit changes are not desired due to pedestrian activity or residential proximity, the "environmental feel" of the road must change. Recommend installing **high-visibility crosswalks** or **narrowing lane striping** to naturally encourage lower speeds through psychological cues.

**Targeted Enforcement:** Once the speed limit is adjusted to a credible level (if necessary), law enforcement should focus on "outlier" drivers speeding in the top 5% of the distribution, as these individuals represent the highest safety risk to the community.

# Signage

City of Sanibel Street Sign Inventory V2 | City of Sanibel Street Sign Inventory



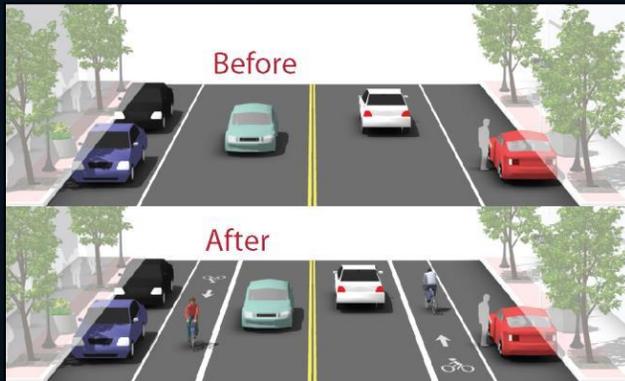
# Speed Change Recommendations

- Sanibel Captiva Road East of Pine Avenue – No Change
- Sanibel Captiva Road West of Buckthorn Lane – No Change
- Sanibel Captiva Road East of Gulf Pines Drive – No Change
- Sanibel Captiva Road East of Rabbit Road – No Change
- Periwinkle Way – Lower East Periwinkle Way from Causeway Boulevard to the Lighthouse to 25 mph
- Rabbit Road – No Change

## Consideration

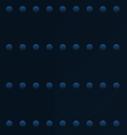
**Narrowed Travel Lanes:** Creates a psychological effect on drivers which makes them feel less comfortable driving at higher speeds, which reduces excessive speeds

**Rumble Strips:** Alerts drivers to slow down at key intersections and driveways. Can cause noise concerns in residential or noise sensitive areas.





# Passing Zone Change Recommendations



# Proposed Passing Zones



# Sanibel Captiva Road & Rabbit Road Intersection

## Options for Consideration

### No Build (Maintain Existing Intersection Layout)

- Maintain existing flow patterns
- Zero cost
- No construction disruption
- No right of way acquisitions

### Conversion to All-Way Stop Control

- May reduce certain crash types, particularly angle collisions.
- Improves gap acceptance for minor-street approaches.
- Most appropriate for balanced, lower-volume intersections.
- May increase delay for the major roadway and reduce overall operational efficiency.

### Addition of Dedicated Turn Lanes

- Enhances capacity and overall traffic operations by separating turning and through movements.
- Reduces rear-end conflicts and improves intersection functionality.



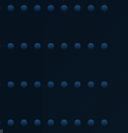
# Sanibel Captiva Road & Rabbit Road Intersection





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# Questions?

