

Gahanna Division of Police

Jeffrey B. Spence, Chief of Police



Field Services Subdivision

Traffic Survey

Lincolnshire Road 06-21-21 to 07-15-21

460 Rocky Fork Blvd.

Gahanna, Ohio 43230

614-342-4240

WWW.GAHANNA.GOV

Survey Device: Speed Monitoring and Notification Device (SMND) # 1009

Survey Operator: Lt. Ethan Moffitt # L-58

Device Location: Lincolnshire Road, south of McCutcheon Road

Device Direction: Facing southbound traffic (coming from McCutcheon Road)

Speed Limit: 25 MPH

Survey Dates: 06-21-21 to 07-15-21

Survey Reason: Self-initiated deployment (know high-speed area and crash location)

Summary –

On 06-21-21, SMND # 1009 was deployed on Lincolnshire Road, a location associated with previous community reports of excessive speed. Additionally, Lincolnshire Road had the highest number of crashes among residential streets in 2020 (7 total crashes); there have been an additional two crashes on Lincolnshire Road this year. The device was deployed in order to provide a continuous speed mitigation presence.

The SMND recorded the speed of 40, 534 vehicles (combined southbound and northbound traffic). Of those, 26,386, or 66%, were traveling in excess of the posted speed limit and 14,148, or 34%, were traveling below the speed limit. The average speed of vehicles traveling in excess of the posted limit was 30 MPH. The overall average speed (above and below the posted limit) was approximately 27 MPH. The 85th percentile speed was 32 MPH, meaning that 85% of the vehicles were traveling at a speed of 32 MPH or less. Relative to residential streets, 32 MPH is a high 85th percentile speed – typically it's approximately 28 MPH.

2,790 vehicles, or 6%, were traveling at speed of 35 MPH or higher (at least 10 over the posted limit). Again, among residential streets this is a greater percentage than what is typically seen – it is not uncommon for only 1% of the vehicles on other residential roads to be traveling at such speeds. Vehicles traveling at 10 over the limit accounted for 10% of the vehicles traveling in excess of the posted limit (26,386).

The survey results indicate that Lincolnshire Road is an appropriate location for directed speed enforcement. As such, Division officers have been directed to conduct targeted enforcement between McCutcheon Road and Empire Drive. The directed deployments are intended to increase officer visibility in the area, mitigate speed violations, and take enforcement action on high-speed violators.

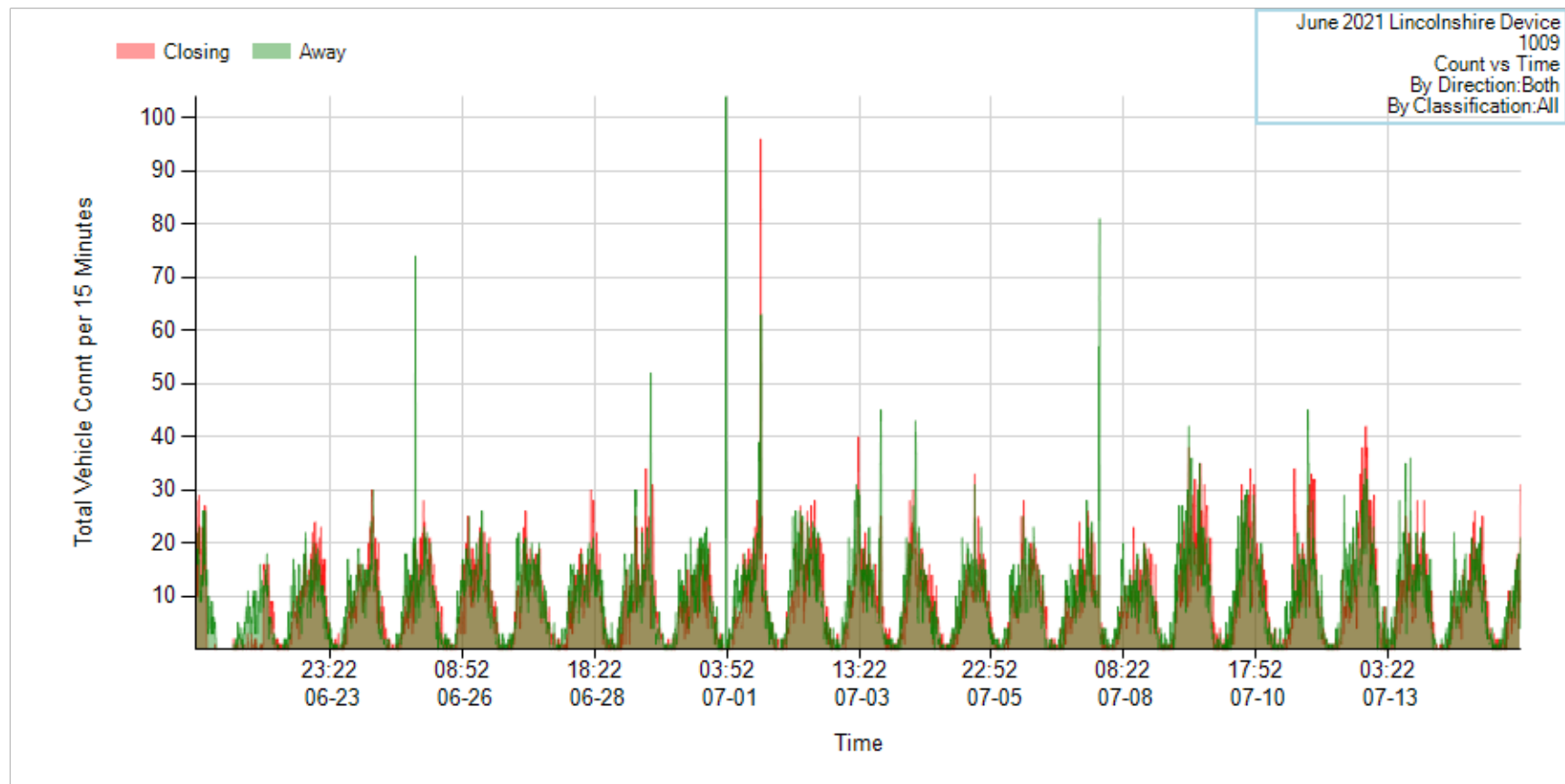




GAHANNA DIVISION OF POLICE LINCOLNSHIRE ROAD - JUNE 2021 SPEED SURVEY



Count vs. Time



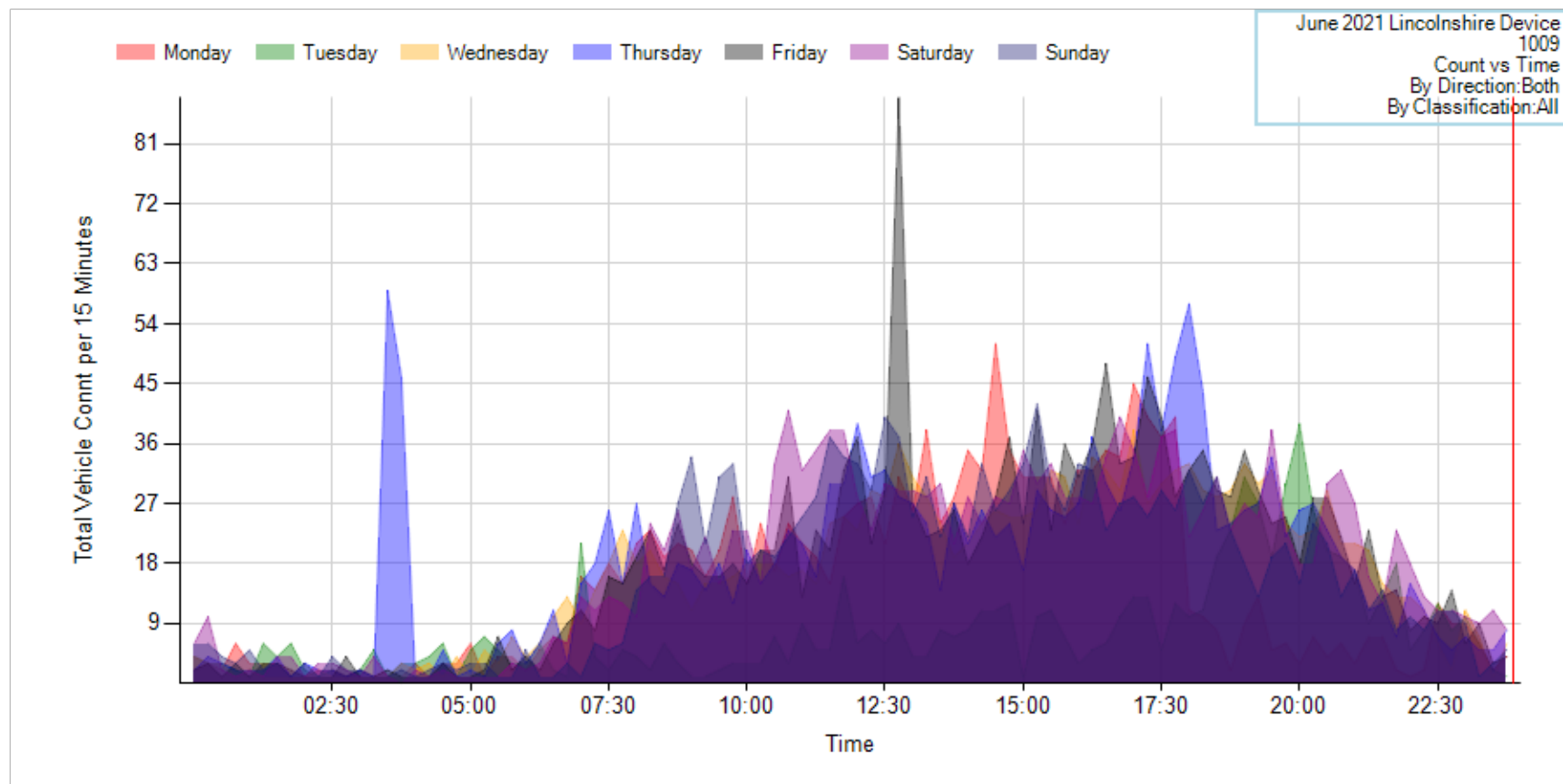
Survey Name	June 2021 Lincolnshire C	Speed Unit	Miles/Hour	Average Speed	26.9	MPH	Total Volume	40534	100%
Start Date	2021-06-21	Speed Limit	25	Max Speed	70	MPH	Over Limit Count	26386	65.1%
Stop Date	2021-07-15			Min Speed	10	MPH	Under Limit Count	14148	34.9%
				85th Percentile	32	MPH	Over Threshold Count	2790	6%
				10 MPH Pace	22 - 31	MPH	In Pace Count	25771	63.6%



GAHANNA DIVISION OF POLICE LINCOLNSHIRE ROAD - JUNE 2021 SPEED SURVEY



Weekly Count vs. Time



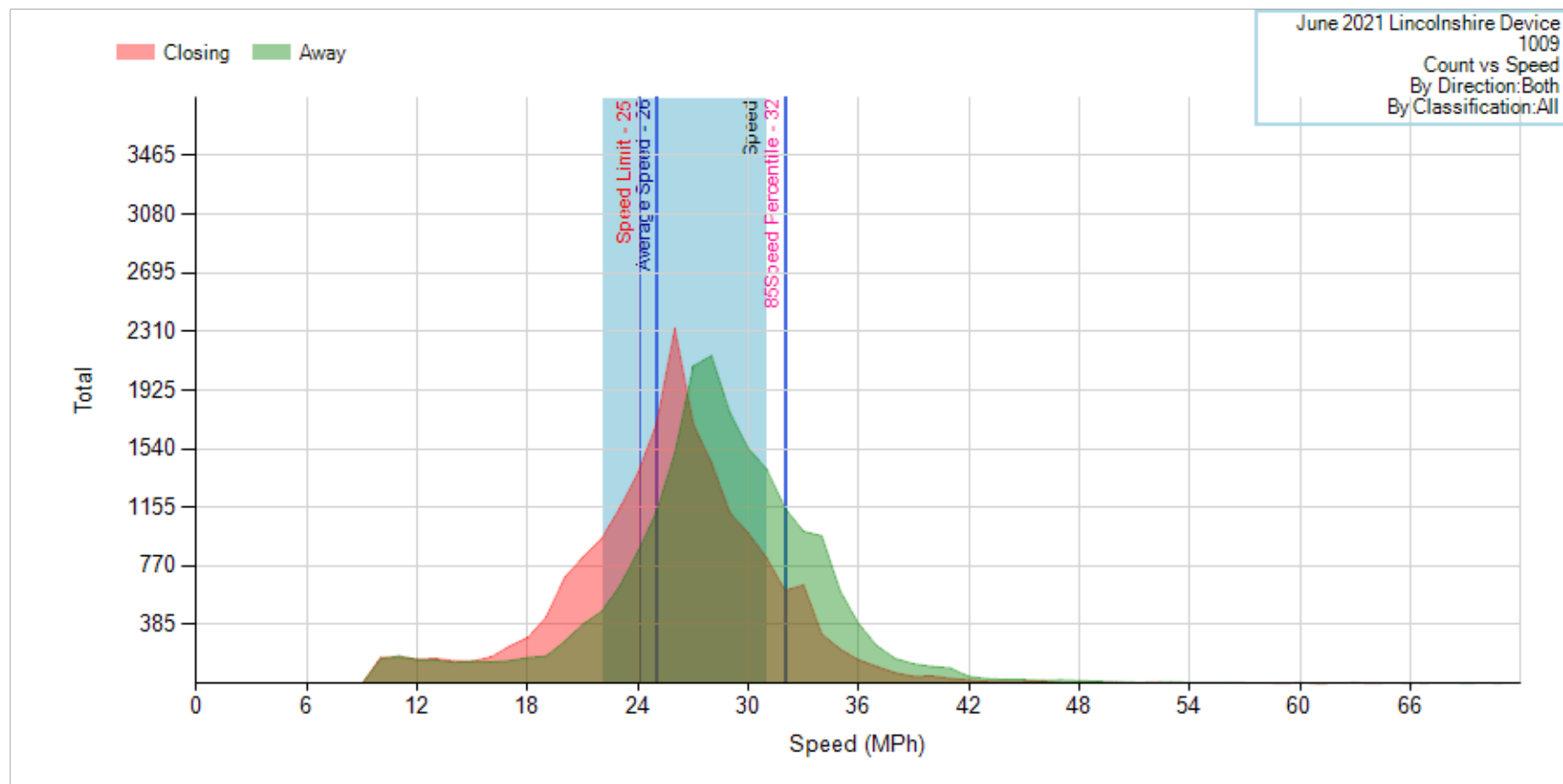
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Count vs. Speed



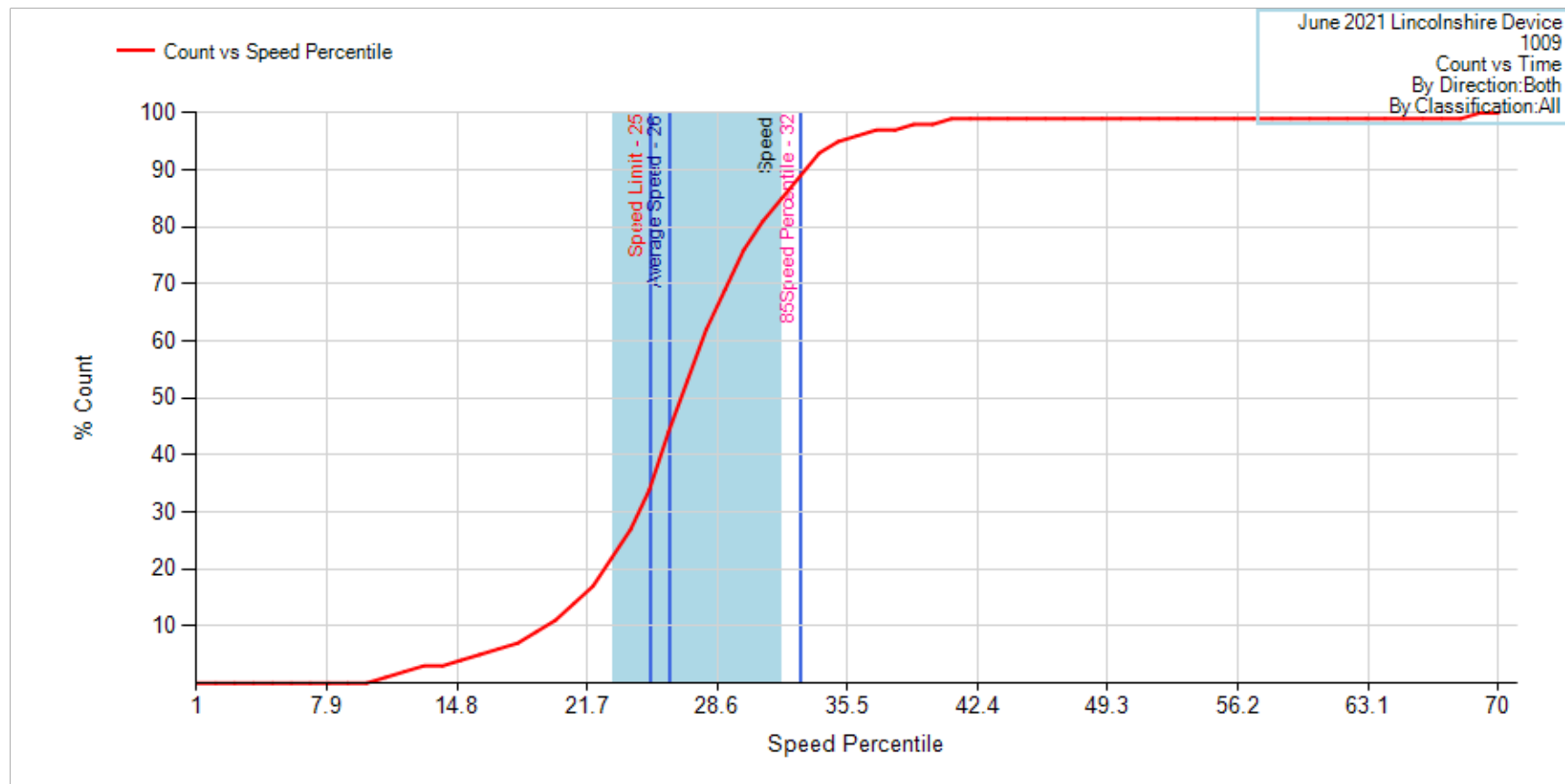
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GAHANNA DIVISION OF POLICE LINCOLNSHIRE ROAD - JUNE 2021 SPEED SURVEY



Percentile Chart



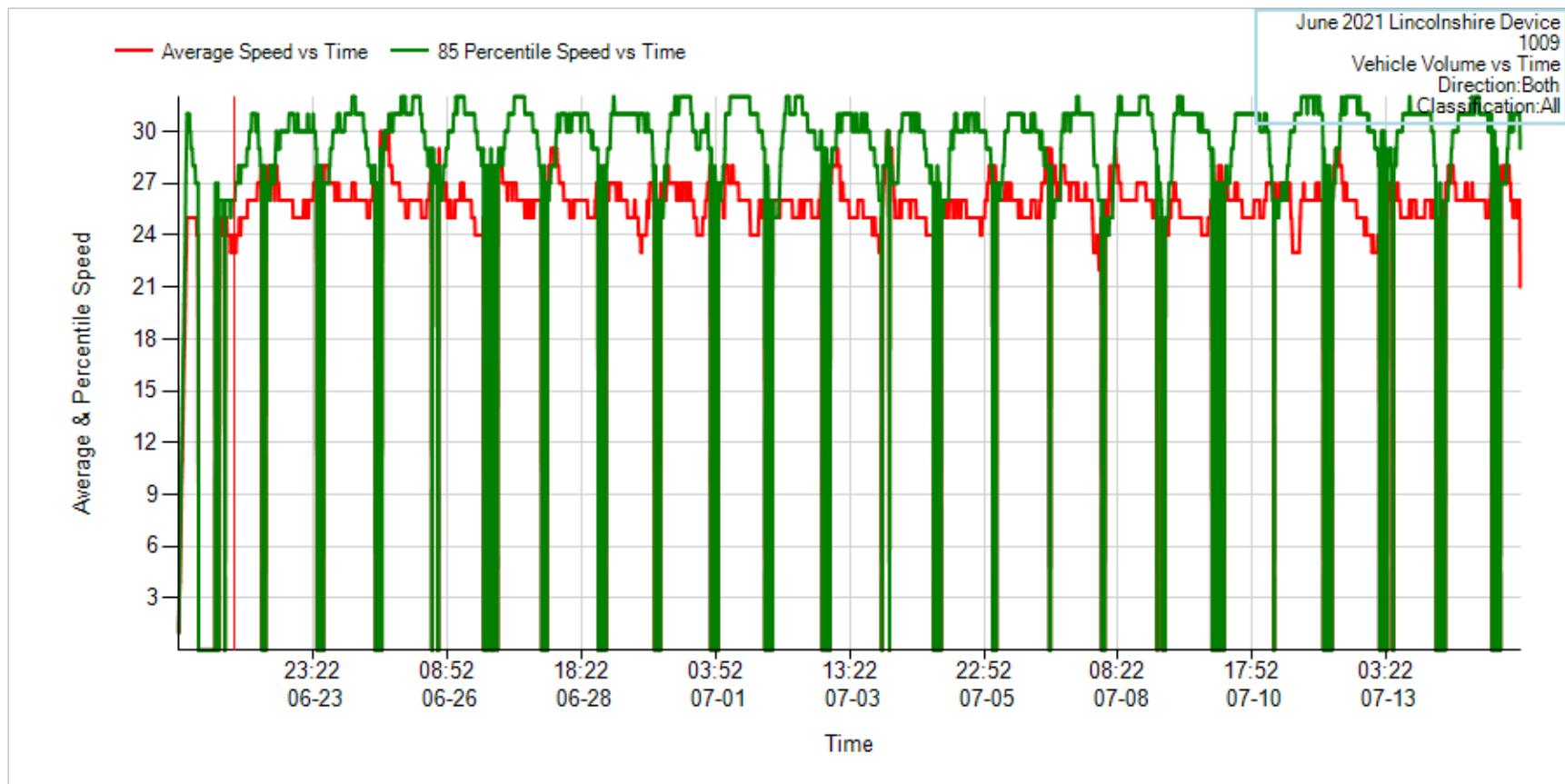
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Average Speed vs. Time



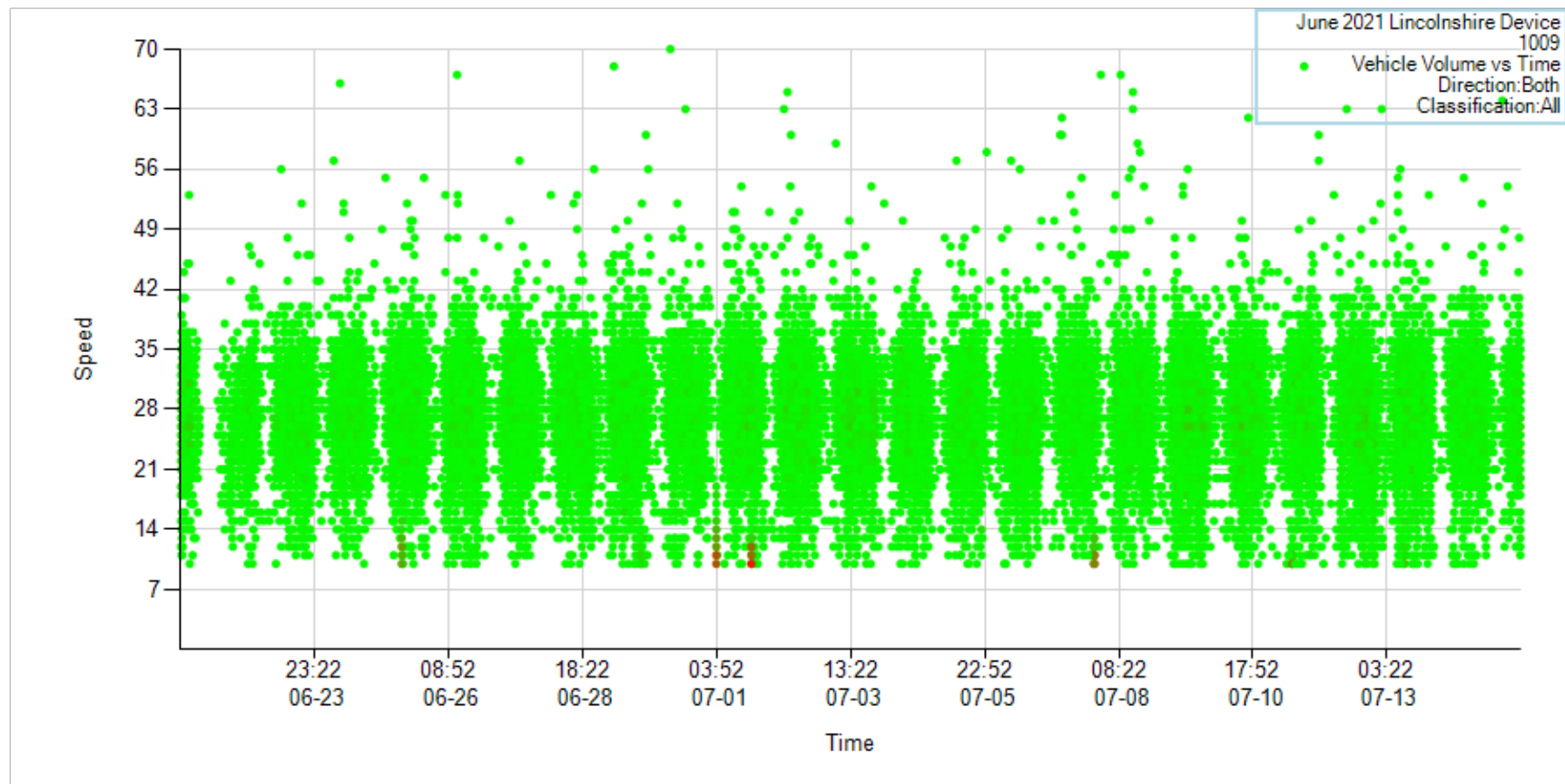
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GAHANNA DIVISION OF POLICE LINCOLNSHIRE ROAD - JUNE 2021 SPEED SURVEY



Speed vs. Time Bubble Chart



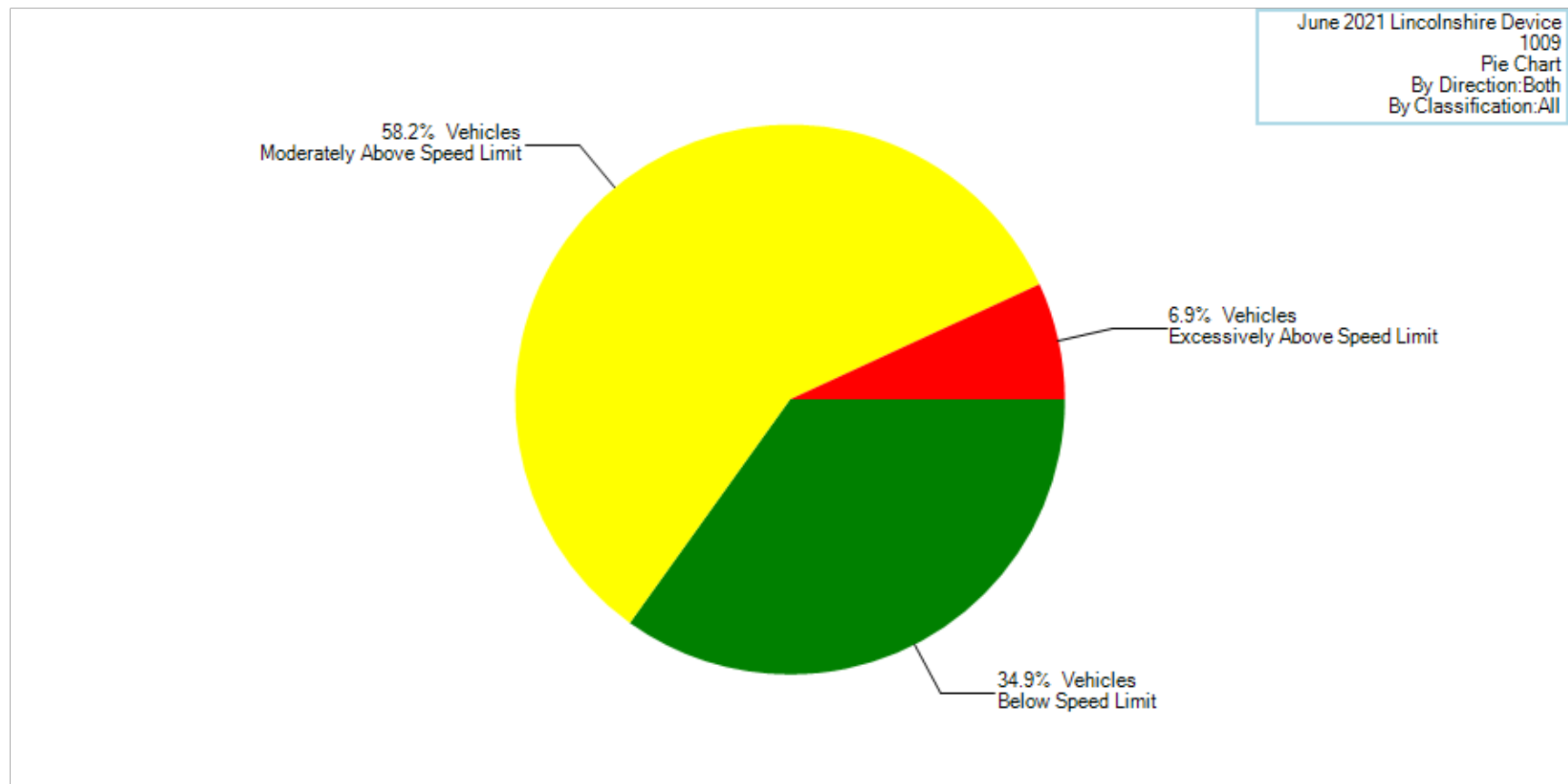
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GAHANNA DIVISION OF POLICE LINCOLNSHIRE ROAD - JUNE 2021 SPEED SURVEY



Enforcement



Survey Name	June 2021 Lincolnshire C Speed Unit	Miles/Hour	Average Speed	26.9	MPH	Total Volume	40534	100%
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Start	2021-06-21 13:52	Traffic Direction	Undefined	Speed Limit	25
Stop	2021-07-15 12:50	Zone	Normal	Min Speed Threshold	10
Operator	000	Min Following Time	0.0	Max Speed Threshold	120
Survey Direction	Both	Time Resolution	1	Speed Resolution	1

Total Vehicle Connt	40534	100%	Average Speed	26.9	MPH	In Pace Count	25771	63%
Under Limit Count	14148	34%	Minimum Speed	10	MPH	10 mph Pace	22 - 31	MPH
Over Limit Count	26386	66%	Maximum Speed	70	MPH	Standard Deviation	5	MPH
10 Over Limit Count	2790	6%	85Speed Percentile	32	MPH	Average Speed Over Limit	30.1	MPH



Survey Report Quick Guide/Reference

Over Threshold Count

The default threshold (amount over the posted speed limit) is 10 MPH. The **Over Threshold Count** is the number of vehicles traveling in excess of the selected threshold. For example, if the threshold is set at the 10 MPH default, this would indicate the number of vehicles (within the Total Volume) that were traveling at 10 MPH over the posted limited.

Count vs. Time

The **Count vs Time Chart** shows the number of vehicles per unit of time traveling on the monitored roadway.

Weekly Count vs. Time Chart

The **Weekly Count vs. Time Chart** mode shows the vehicle count per day over a 7-day period. If the survey period extends beyond one 7- day week, the values of each overlapped week day will be the average values for those overlapped week days.

Count vs. Speed Chart

The **Count vs. Speed Chart** selection shows the total vehicle count for each speed group. The size of the speed group can be set by the operator (**Speed Resolution** selection in the **Analysis Control**).

Percentile Chart

The **Percentile Chart** shows the cumulative percentage of vehicles that are at or below a given speed

Average Speed vs. Time Chart

The **Average Speed vs. Time Chart** shows the average and the 85th Percentile Speeds of the vehicles over time.

Speed vs. Time Bubble Chart

The **Speed vs. Time Bubble Chart** plots both vehicle speed and volume against time. The size of the bubble represents the number of cars at a particular speed group at a particular time. This chart is useful in showing traffic bunching.

Average Speed

The average speed of all vehicles

85Speed Percentile

The speed at which 85% of the traffic was traveling **at or less than**. The 85th percentile is considered to be a key metric because it is generally considered to be representative of prevailing traffic conditions (the speed vehicles on the roadway are going most of the time).