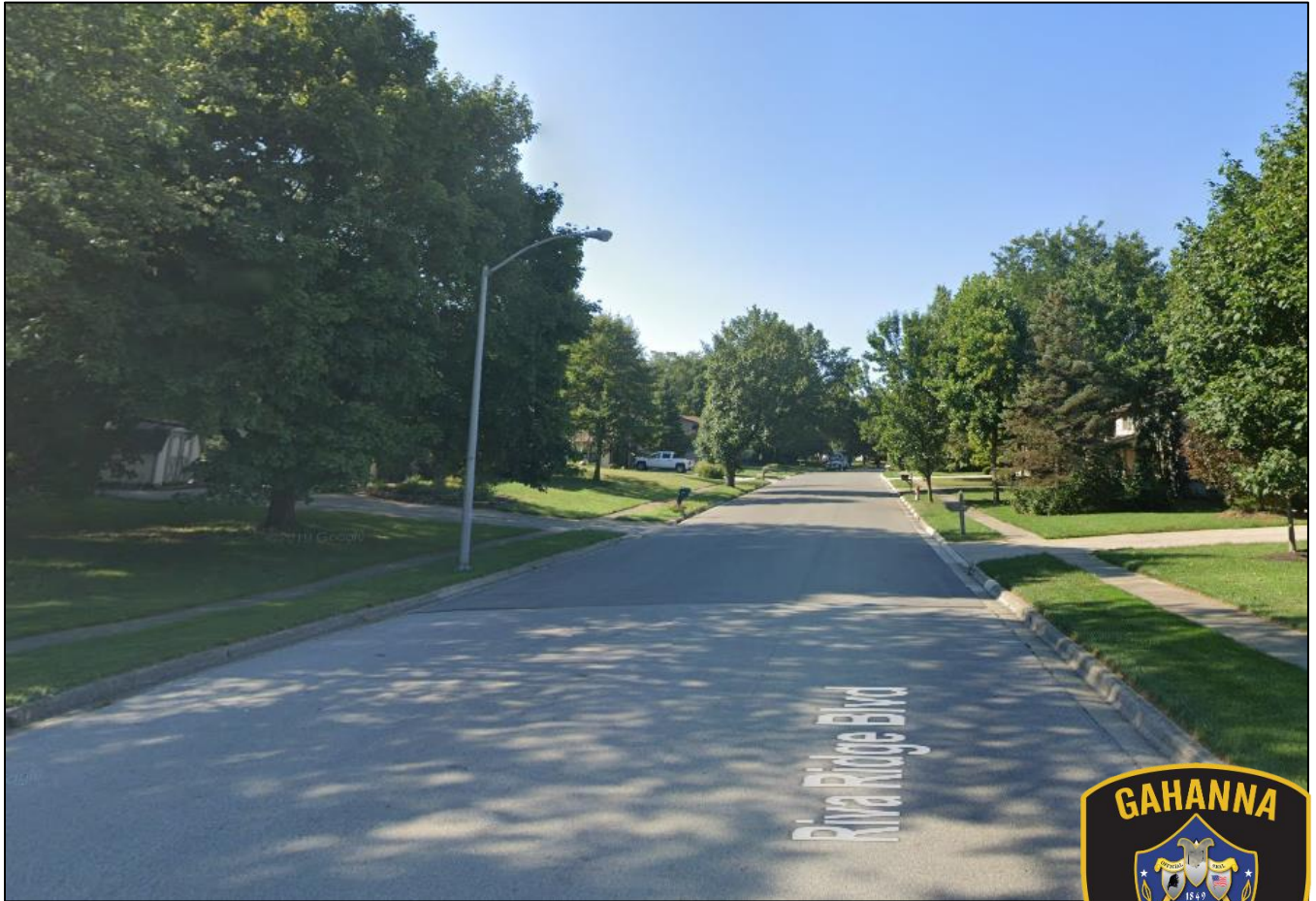


Gahanna Division of Police

Jeffrey B. Spence, Chief of Police



Field Services Subdivision Traffic Survey

Riva Ridge Boulevard 6-23-22 to 7-4-22

460 Rocky Fork Blvd.

Gahanna, Ohio 43230

614-342-4240

WWW.GAHANNA.GOV

Survey Device: Speed Monitoring and Notification Device (SMND) # 1129

Survey Operator: Lt. Ethan Moffitt # L-58

Device Location: Riva Ridge Boulevard just northeast of Pimlico Drive

Device Direction: Northeast (facing traffic approaching Pimlico Drive from Tim Tam Avenue)

Speed Limit: 25 MPH

Survey Dates: 06-23-22 to 07-04-22

Survey Reason: Resident request for speed mitigation passed onto an officer while on patrol in the neighborhood.

Summary –

On 06-23-22 SMND # 1129 was deployed on Riva Ridge Boulevard in the area of Pimlico Drive. Riva Ridge Boulevard is associated with previous neighborhood complaints of excessive speed on the northern portion of the roadway.

The device recorded the speed of 13,200 vehicles. There were 5376 vehicles, or just over 40%, going over the speed limit and 7824, or almost 60%, going under the speed limit. Of those vehicles going over the speed limit, their average speed was just under 29 MPH. The 85th percentile speed was 29 MPH, meaning that 85% of the vehicles were traveling at a speed of 29 MPH or less.

There were 179 vehicles, or 1%, traveling at a speed of 35 MPH or greater. The overall average speed was just under 23 MPH, indicating that the presence of the device was an effective mitigation measure.

Gahanna Division of Police

Survey Description

Survey Details

Survey Location	840 Riva Ridge Boulevard, Gahanna, OH	
Survey GPS Coordinates	40.039132,-82.851274	
Survey Dates	Start	Stop
	Thursday, 6/23/2022 12:50 PM	Monday, 7/4/2022 12:22 PM
Posted Speed Limit	25 (mph)	
Traffic Zone	Normal	
File Name	RivaRidge@Pimlico_June 2022_SurveyDataFile@2022-07-08_12-25-32_SMND2.xml	
Device Type	Traffic Trailer	
Device Serial Number	SNAA000000	
Survey Note	Riva Ridge June 2022 SMND-2	

Total Vehicle Count	13065	
<i>Traffic Direction</i>	Southwest (Closing)	Northeast (Away)
<i>Vehicle Count</i>	6508	6557

Survey Map



Gahanna Division of Police

Survey Summary

Survey Description

Survey Location	840 Riva Ridge Boulevard, Gahanna, OH	
Survey GPS Coordinates	40.039132,-82.851274	
Survey Dates	Start	Stop
	Thursday, 6/23/2022 12:50 PM	Monday, 7/4/2022 12:22 PM
Posted Speed Limit	25 (mph)	
Traffic Zone	Normal	

Survey Result

Total Vehicle Count		13065		
	Traffic Direction	Closing	Away	Combined
		Southwest	Northeast	
	Vehicle Count	6508	6557	13065
Posted Speed Limit		25 (mph)		
	Vehicles Under the Speed Limit Count	4144	3564	7708
	Vehicles Under the Speed Limit Percentage	63.68%	54.35%	59.0%
	Vehicles Over the Speed Limit Count	2364	2993	5357
	Vehicles Over the Speed Limit Percentage	36.32%	45.65%	41.0%
Excessive Speed Threshold		35 (mph)		
	Vehicles Over the Excessive Speed Count	47	132	179
	Vehicles Over the Excessive Speed Percentage	0.72%	2.01%	1.37%
	Average Speed Over Limit	28.1 (mph)	29.01 (mph)	28.61 (mph)
Speed Profile				
	Average Speed	22.16 (mph)	23.51 (mph)	22.84 (mph)
	Minimum Speed	3 (mph)	3 (mph)	3 (mph)
	Maximum Speed	74 (mph)	57 (mph)	74 (mph)
	85th Percentile Speed	28 (mph)	30 (mph)	29 (mph)
	Standard Deviation	6 (mph)	6 (mph)	6 (mph)
	10 mph Pace	18-27 (mph)	19-28 (mph)	18-27 (mph)
	In Pace Count	3454	3380	6490
Data Recording Limits				
	Highest Speed Allowed	120 (mph)		
	Lowest Speed Allowed	10 (mph)		
	Minimum Following Time	0 Second(s)		

Gahanna Division of Police

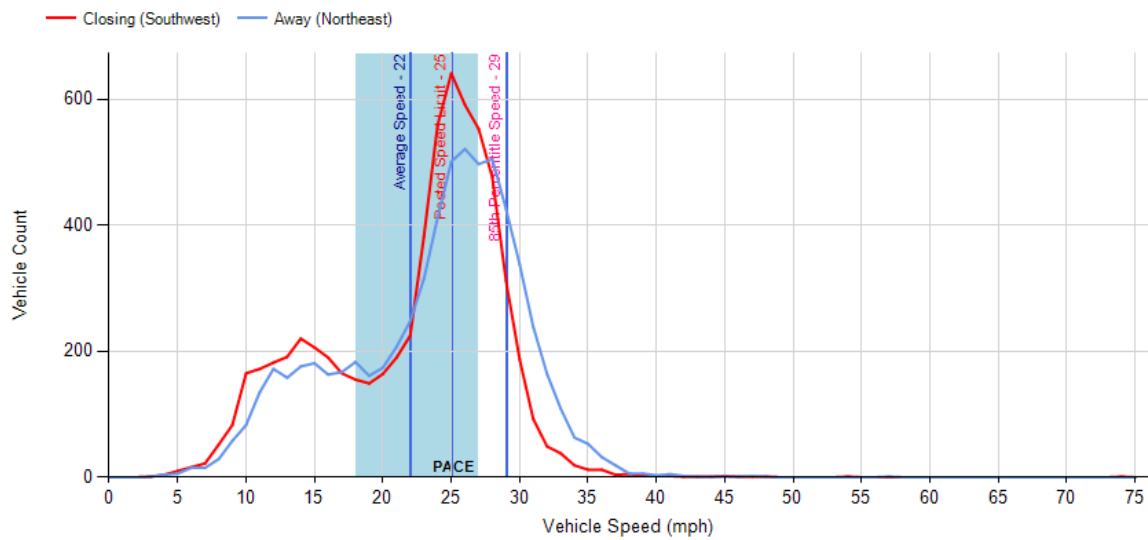
Survey Description

Survey Location	840 Riva Ridge Boulevard, Gahanna, OH	
Survey GPS Coordinates	40.039132, -82.851274	
Survey Dates	Start	Stop
	Thursday, 6/23/2022 12:50 PM	Monday, 7/4/2022 12:22 PM
Posted Speed Limit	25 (mph)	
Traffic Zone	Normal	

Count vs Speed - Line Chart

Date Range: 2022-06-23 - 2022-07-04

Direction: Both



Gahanna Division of Police

Survey Description

Survey Details

Survey Location	840 Riva Ridge Boulevard, Gahanna, OH	
Survey GPS Coordinates	40.039132,-82.851274	
Survey Dates	Start	Stop
	Thursday, 6/23/2022 12:50 PM	Monday, 7/4/2022 12:22 PM
Posted Speed Limit	25 (mph)	
Traffic Zone	Normal	
File Name	RivaRidge@Pimlico_June 2022_SurveyDataFile@2022-07-08_12-25-32_SMND2.xml	
Device Type	Traffic Trailer	
Device Serial Number	SNAA000000	
Survey Note	Riva Ridge June 2022 SMND-2	

Total Vehicle Count	13065	
<i>Traffic Direction</i>	Southwest (Closing)	Northeast (Away)
<i>Vehicle Count</i>	6508	6557

Survey Map



Gahanna Division of Police

Survey Summary

Survey Description

Survey Location	840 Riva Ridge Boulevard, Gahanna, OH	
Survey GPS Coordinates	40.039132,-82.851274	
Survey Dates	Start	Stop
	Thursday, 6/23/2022 12:50 PM	Monday, 7/4/2022 12:22 PM
Posted Speed Limit	25 (mph)	
Traffic Zone	Normal	

Survey Result

Total Vehicle Count		13065		
	Traffic Direction	Closing Southwest	Away Northeast	Combined
	Vehicle Count	6508	6557	13065
Posted Speed Limit		25 (mph)		
	Vehicles Under the Speed Limit Count	4144	3564	7708
	Vehicles Under the Speed Limit Percentage	63.68%	54.35%	59.0%
	Vehicles Over the Speed Limit Count	2364	2993	5357
	Vehicles Over the Speed Limit Percentage	36.32%	45.65%	41.0%
Excessive Speed Threshold		35 (mph)		
	Vehicles Over the Excessive Speed Count	47	132	179
	Vehicles Over the Excessive Speed Percentage	0.72%	2.01%	1.37%
	Average Speed Over Limit	28.1 (mph)	29.01 (mph)	28.61 (mph)
Speed Profile				
	Average Speed	22.16 (mph)	23.51 (mph)	22.84 (mph)
	Minimum Speed	3 (mph)	3 (mph)	3 (mph)
	Maximum Speed	74 (mph)	57 (mph)	74 (mph)
	85th Percentile Speed	28 (mph)	30 (mph)	29 (mph)
	Standard Deviation	6 (mph)	6 (mph)	6 (mph)
	10 mph Pace	18-27 (mph)	19-28 (mph)	18-27 (mph)
	In Pace Count	3454	3380	6490
Data Recording Limits				
	Highest Speed Allowed	120 (mph)		
	Lowest Speed Allowed	10 (mph)		
	Minimum Following Time	0 Second(s)		

Gahanna Division of Police

Survey Description

Survey Location 840 Riva Ridge Boulevard, Gahanna, OH
Survey GPS Coordinates 40.039132,-82.851274
Survey Dates **Start** Thursday, 6/23/2022 12:50 PM **Stop** Monday, 7/4/2022 12:22 PM
Posted Speed Limit 25 (mph)
Traffic Zone Normal

Speed - Volume Matrix

Date Range: 2022-06-23 - 2022-07-04

Direction: Both

Date Span	Total	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86+
00:00 - 00:59	34	2	9	9	12	1	1											
01:00 - 01:59	29	1	6	9	6	3	1	2	1									
02:00 - 02:59	68	22	12	8	11	12	1			1	1							
03:00 - 03:59	106		12	20	36	34	3	1										
04:00 - 04:59	285	10	19	19	119	110	8											
05:00 - 05:59	595	42	110	104	144	173	19	3										
06:00 - 06:59	607	36	93	85	164	199	25	4		1								
07:00 - 07:59	743	37	100	90	203	268	43	2										
08:00 - 08:59	757	56	137	110	189	215	44	5				1						
09:00 - 09:59	881	43	152	141	224	275	41	4							1			
10:00 - 10:59	816	38	130	113	226	251	53	4		1								
11:00 - 11:59	833	42	130	132	219	265	41	3	1									
12:00 - 12:59	904	45	157	136	203	285	68	7	3									
13:00 - 13:59	931	25	153	137	244	293	69	8	2									
14:00 - 14:59	1137	27	104	84	325	486	97	12	2									
15:00 - 15:59	962	30	109	92	267	368	84	10	2									
16:00 - 16:59	736	26	84	70	200	287	63	5	1									
17:00 - 17:59	591	21	58	67	166	224	48	7										
18:00 - 18:59	686	29	78	90	188	246	49	5	1									
19:00 - 19:59	617	13	65	71	257	176	34	1										
20:00 - 20:59	341	6	33	44	132	107	17		2									
21:00 - 21:59	223	5	23	16	84	70	17	5	1	2								
22:00 - 22:59	120	7	11	19	44	32	5	2										
23:00 - 23:59	63	1	8	5	17	26	6											

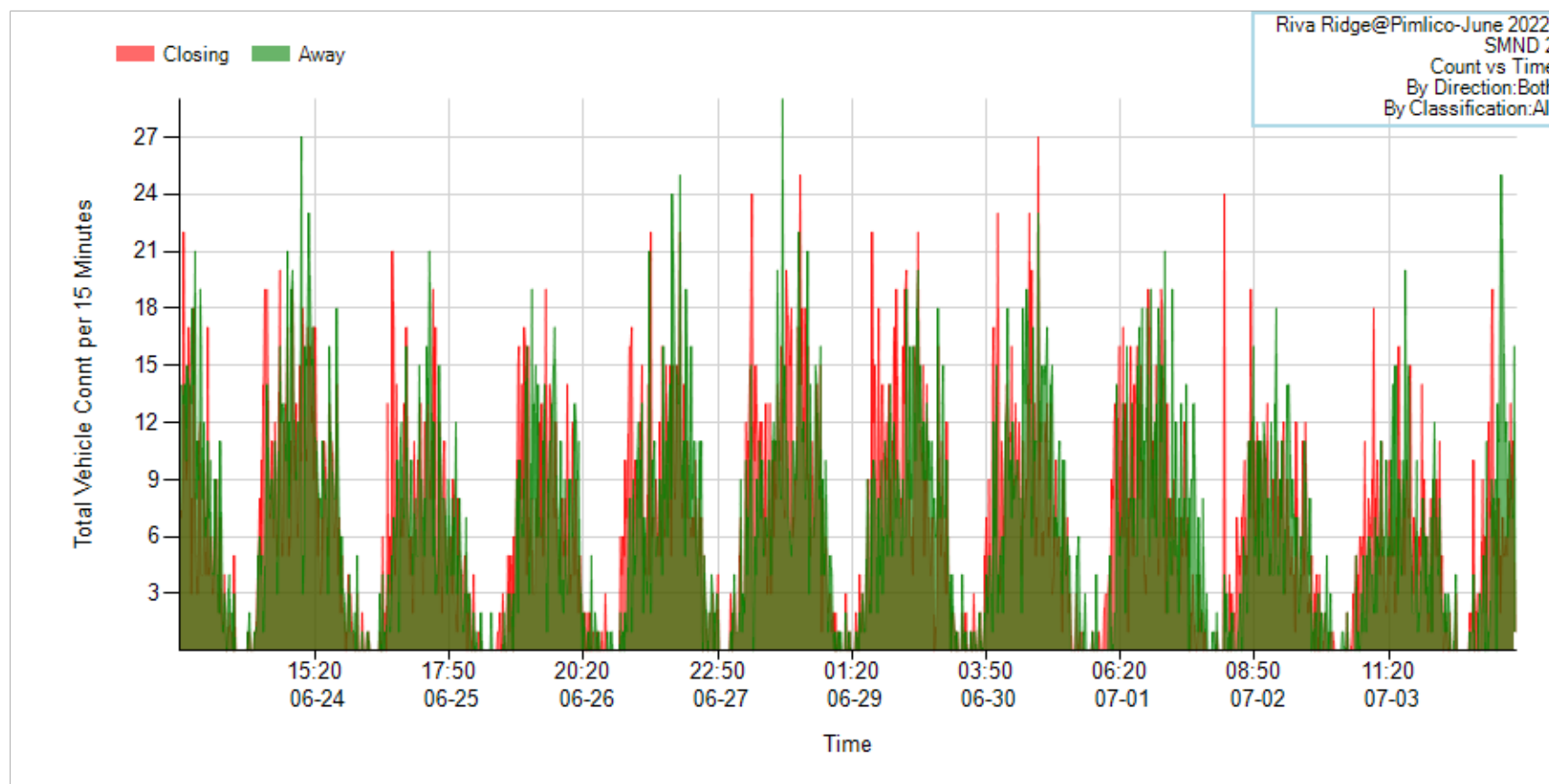


Gahanna Division of Police

Riva Ridge Boulevard 2022 Speed Survey



Count vs. Time



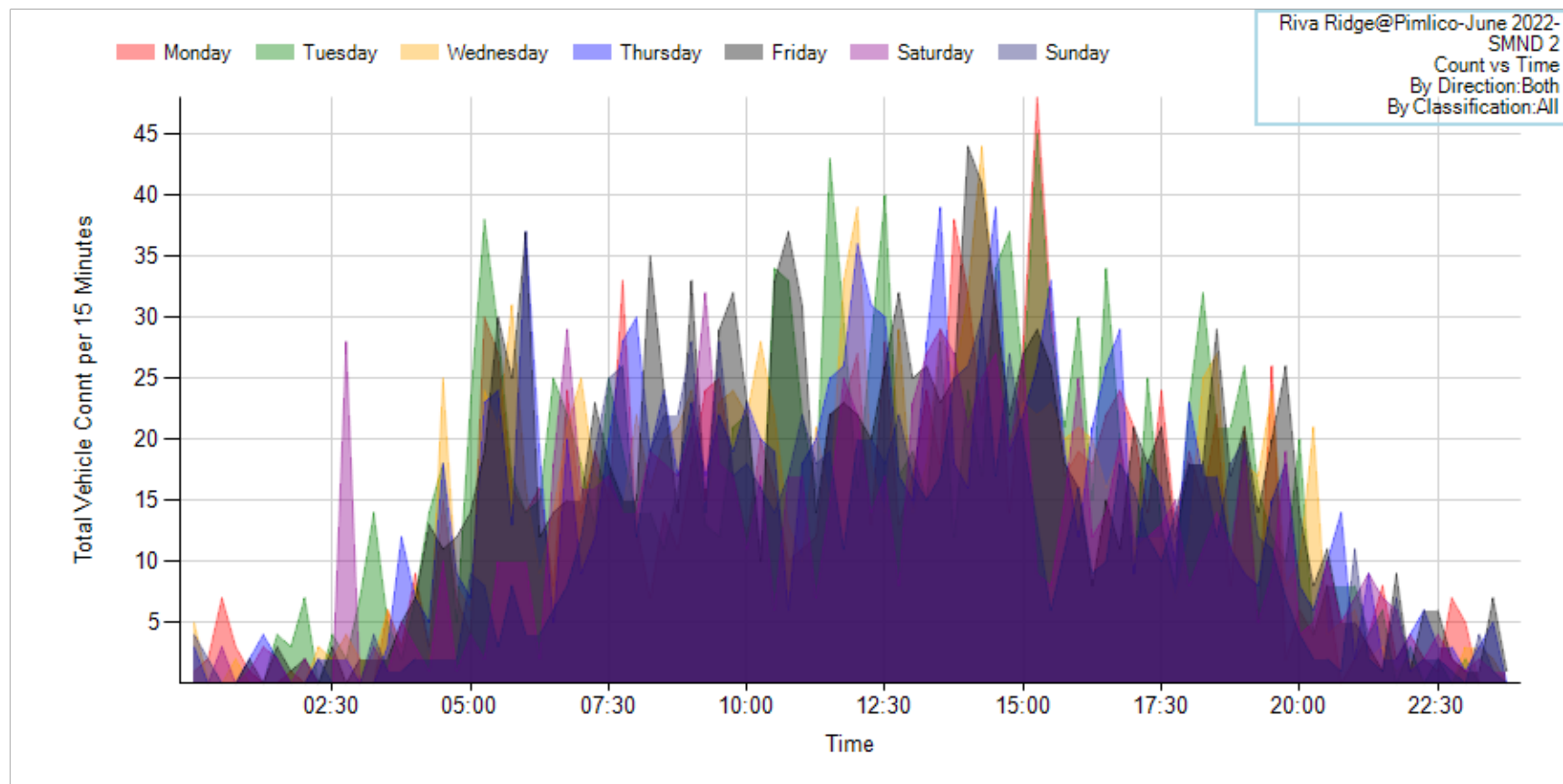
Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13200	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5376	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7824	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6532	49.5%



Gahanna Division of Police Riva Ridge Boulevard 2022 Speed Survey



Weekly Count vs. Time



Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13200	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5376	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7824	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6532	49.5%

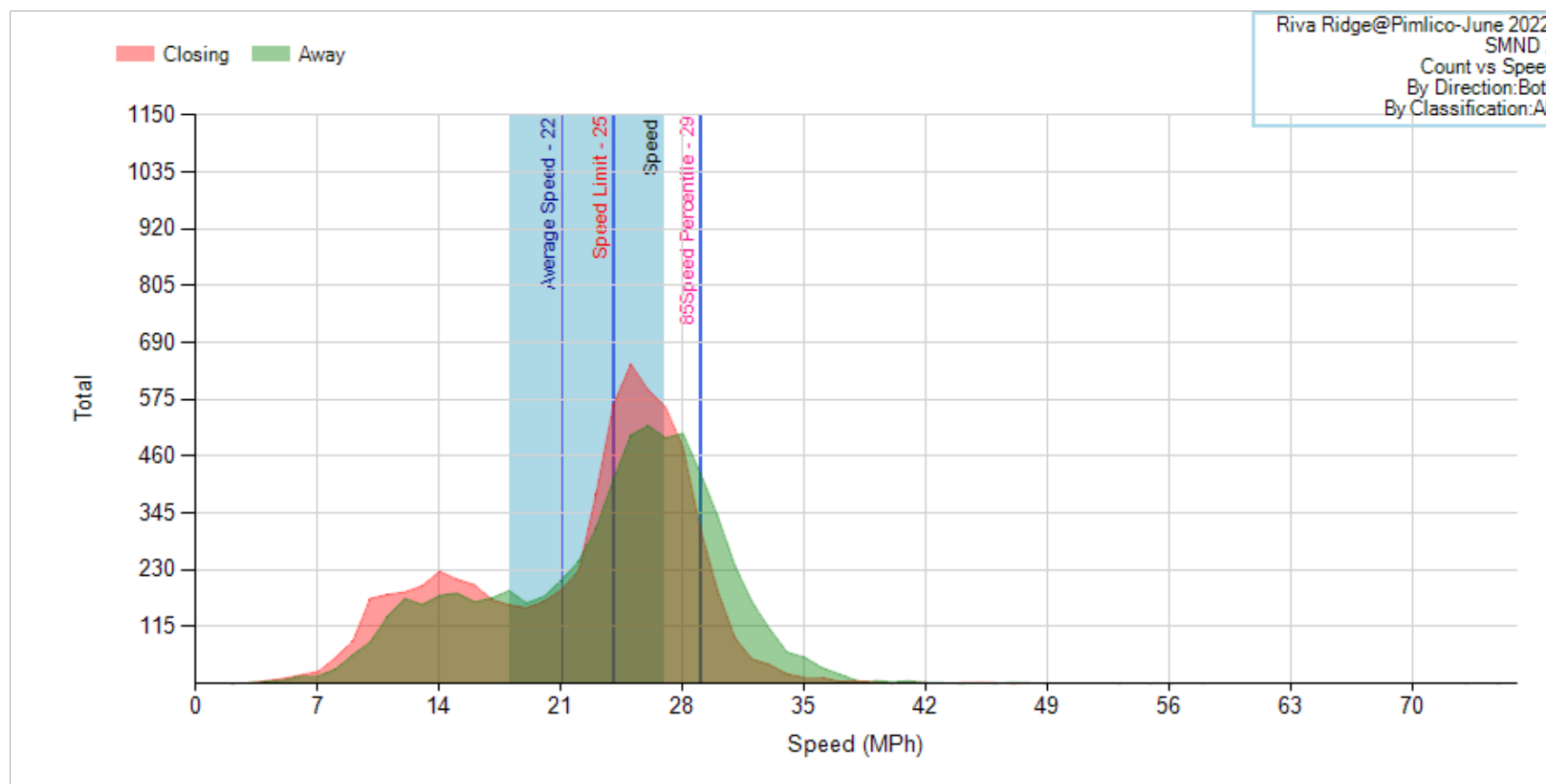


Gahanna Division of Police

Riva Ridge Boulevard 2022 Speed Survey



Count vs. Speed



Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13200	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5376	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7824	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6532	49.5%

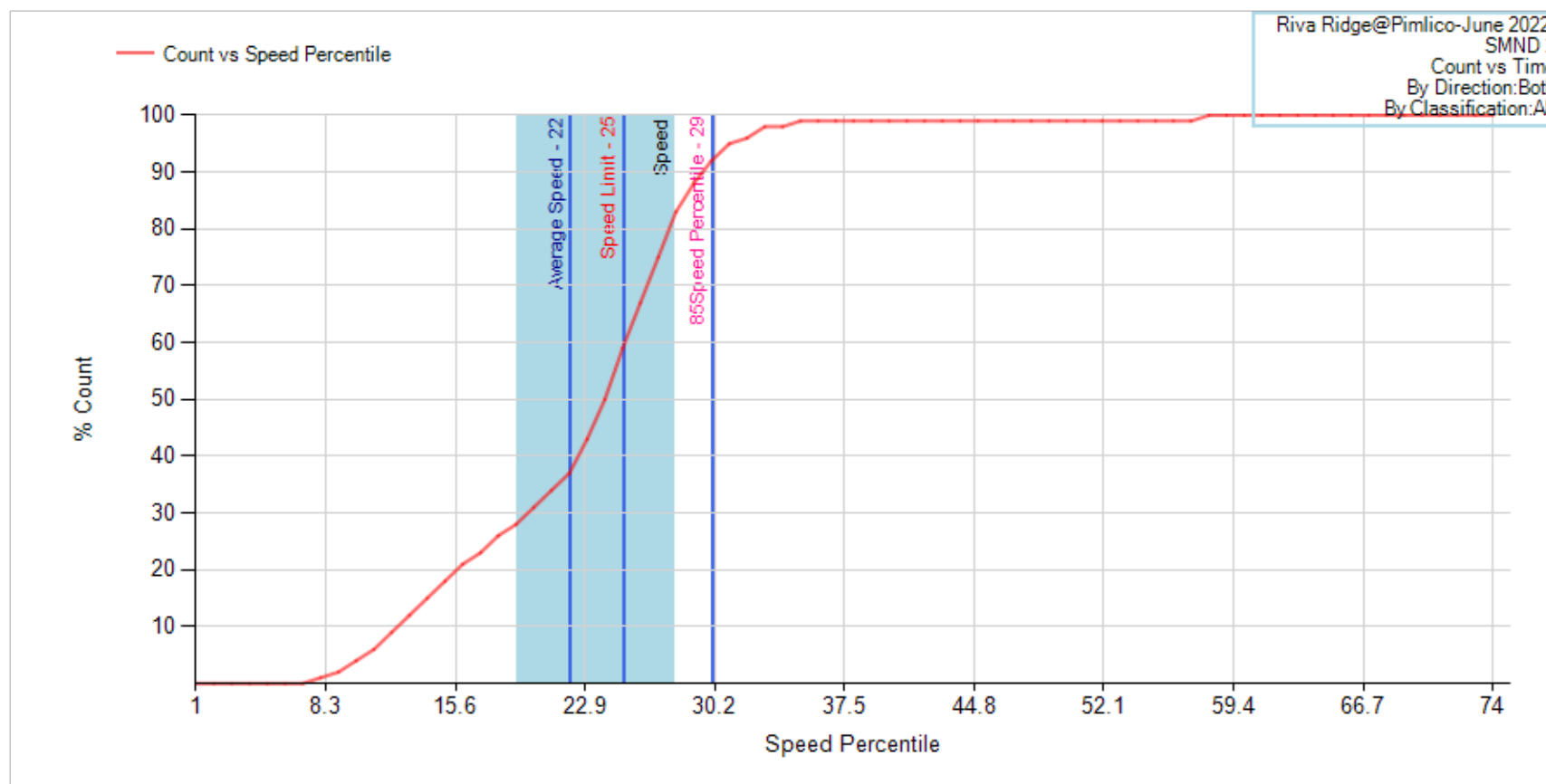


Gahanna Division of Police

Riva Ridge Boulevard 2022 Speed Survey



Percentile Chart



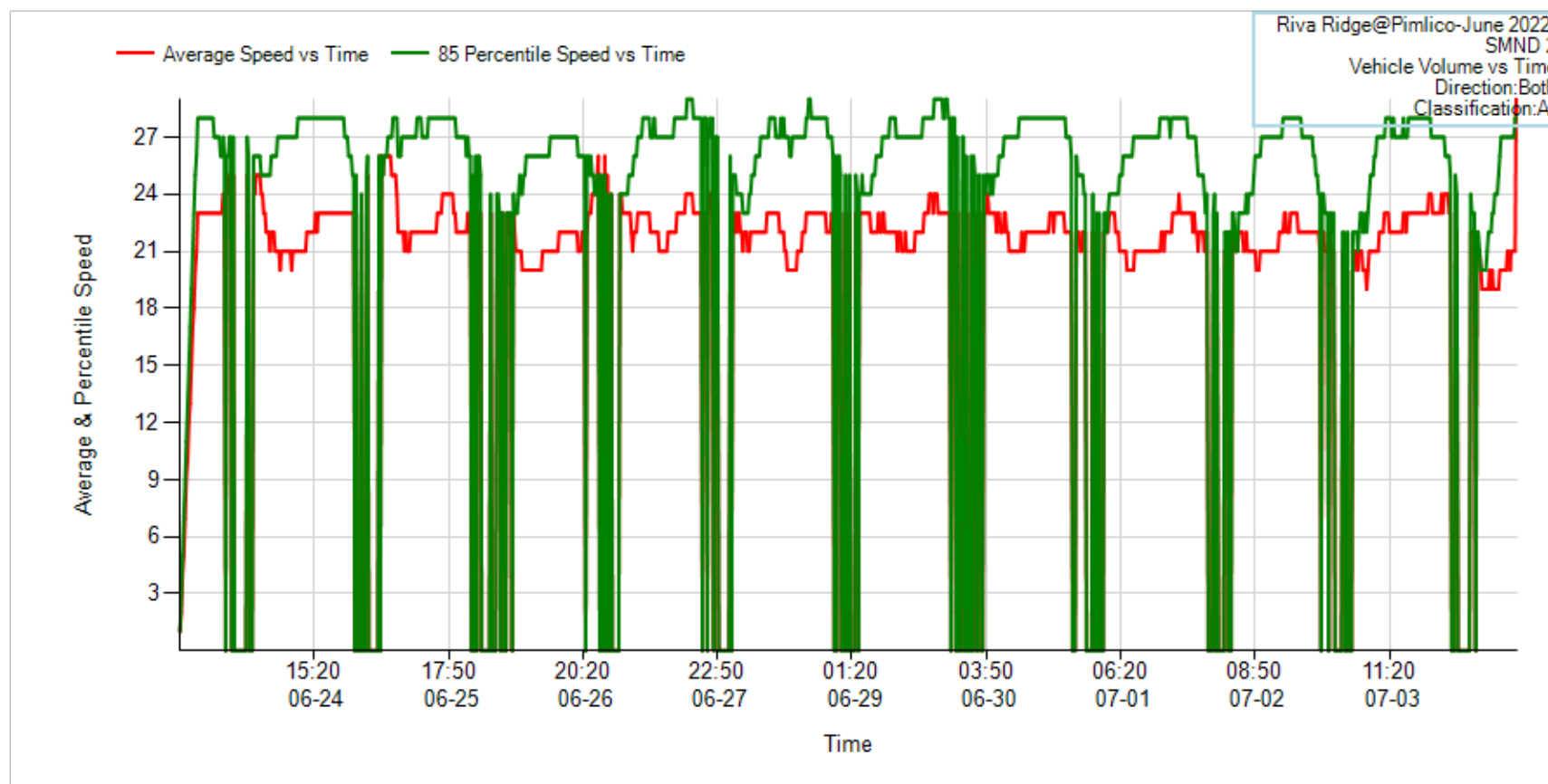
Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13195	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5375	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7820	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6530	49.5%



Gahanna Division of Police Riva Ridge Boulevard 2022 Speed Survey



Average Speed vs. Time



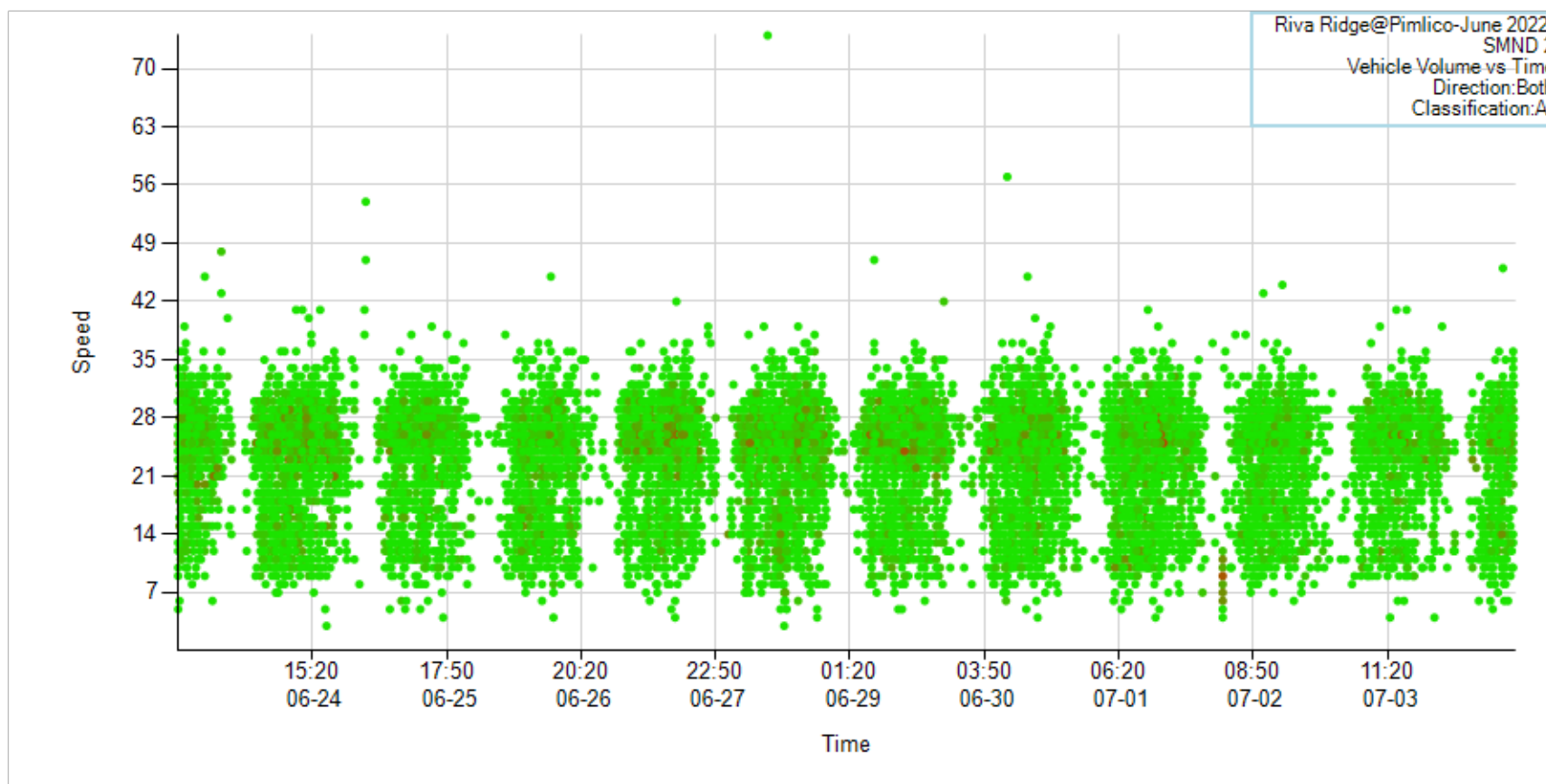
Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13200	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5376	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7824	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6532	49.5%



Gahanna Division of Police Riva Ridge Boulevard 2022 Speed Survey



Speed vs. Time Bubble Chart



Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13200	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5376	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7824	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6532	49.5%

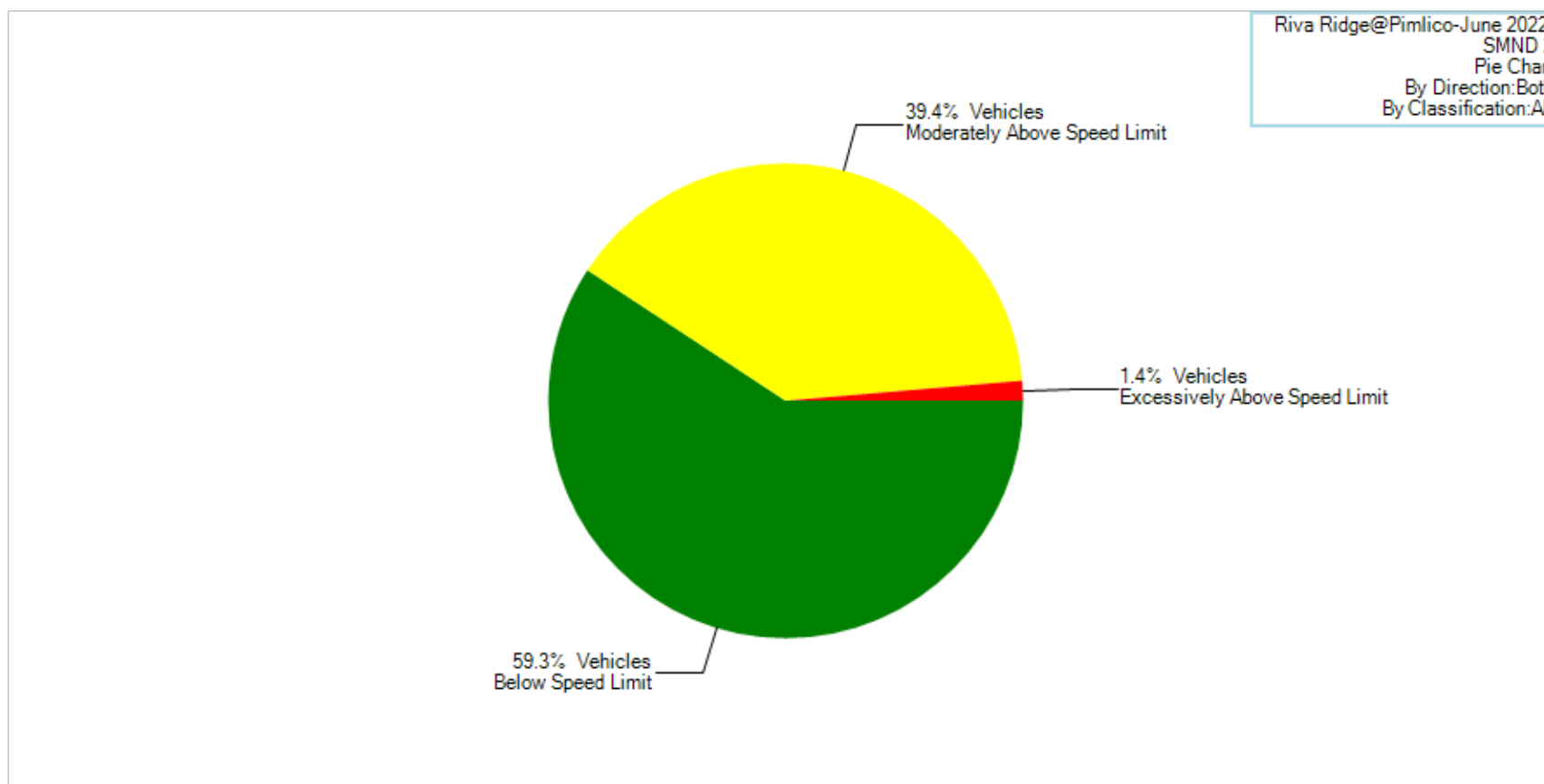


Gahanna Division of Police

Riva Ridge Boulevard 2022 Speed Survey



Enforcement Evaluator



Survey Name	Riva Ridge@Pimlico-June Speed Unit		Miles/Hour	Average Speed	22.8	MPH	Total Volume	13200	100%
Start Date	2022-06-23	Speed Limit	25	Max Speed	74	MPH	Over Limit Count	5376	40.7%
Stop Date	2022-07-04			Min Speed	3	MPH	Under Limit Count	7824	59.3%
				85th Percentile	29	MPH	Over Threshold Count	179	1%
				10 MPH Pace	18 - 27	MPH	In Pace Count	6532	49.5%

Gahanna Division of Police Riva Ridge Boulevard 2022 Speed Survey

Survey Name	Riva Ridge@Pimlico-June 20...	Location	840 Riva Ridge Boulevard,Ga...	Speed Unit	Miles/Hour
Start	2022-06-23 12:50	Traffic Direction	Undefined	Speed Limit	25
Stop	2022-07-04 12:22	Zone	Normal	Min Speed Threshold	10
Operator	Traffic Trailer	Min Following Time	0.0	Max Speed Threshold	120
Survey Direction	Both	Time Resolution	1	Speed Resolution	1

Total Vehicle Connt	13200	100%	Average Speed	22.8	MPH	In Pace Count	6532	49%
Under Limit Count	7824	59%	Minimum Speed	3	MPH	10 mph Pace	18 - 27	MPH
Over Limit Count	5376	41%	Maximum Speed	74	MPH	Standard Deviation	6	MPH
10 Over Limit Count	179	1%	85Speed Percentile	29	MPH	Average Speed Over Limit	28.6	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 the prevailing traffic conditions (the speed vehicles on the roadway are going most of the time).