

# Carlton Parish Council

## Speed Indicator Device (SID): Interim report

### Bosworth Road, street lighting column 6, northbound vehicles 22<sup>nd</sup> August to 21<sup>st</sup> September 2022

For Project: 2022 Bosworth Rd C6 NBd  
Location/Name: Incoming  
Report Generated: 27/09/2022 02:41:03 PM  
Speed Intervals = 5 MPH  
Time Intervals = Instant

### Traffic Report From 22/08/2022 11:00:00 am through 21/09/2022 07:59:59 am

85th Percentile Speed = 43.2 MPH  
85th Percentile Vehicles = 20,297 counts  
Max Speed = 80.0 MPH on 16/09/2022 20:55:00  
Total Vehicles =23,879 counts  
AADT: 799.3

### Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		820	770
AM Peak	07:00 to 08:00	78	63
PM Peak	02:00 to 03:00	92	80

### Speed

Speed Limit: 30 MPH  
85th Percentile Speed: 43.2 MPH  
50th Percentile Speed: 34.4 MPH  
10 MPH Pace Interval: 30.0 MPH to 40.0 MPH  
Average Speed: 32.7 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	2155	3059	2707	2716	2640	1943	1547
% over limit	55.7	76.2	76.5	70.8	76.8	69.0	65.3
Avg Speeder	38.6	38.7	38.7	38.6	38.6	38.2	38.3

### Storm episodes

There were four major storm episodes in this data set:

8.9.2022	1245-1415	224 vehicles
8.9.2022	1705-1745	167 vehicles
5.9.2022	0020-0135	556 vehicles
5.9.2022	2155-2305	534 vehicles

There were also some minor storm episodes involving false counts of around 50 vehicles. Altogether, almost all of the 2003 vehicle counts in the 5-10 mph speed class could be attributed to false counts.

Analyses as above were carried out on the data for the two periods 22.8.2022 – 4.9.2022, and 9.9.2022 – 21.9.2022, omitting the four most serious storm episodes.

	22.8-21.9	22.8-4.9	9.9-21.9
85th Percentile Speed	43.2	43.4	43.5
50th Percentile Speed	34.4	35.0	35.1
Average Speed	32.7	34.0	34.6

The false counts in the 5-10 mph speed class had the effect of increasing the 85<sup>th</sup> percentile speed by 0.2 and 0.3 mph; the 50<sup>th</sup> percentile speed by 0.6 and 0.7 mph; and reducing the average speed by 1.3 and 1.9 mph respectively.

These differences are not considered significant.

### **Additional data analysis**

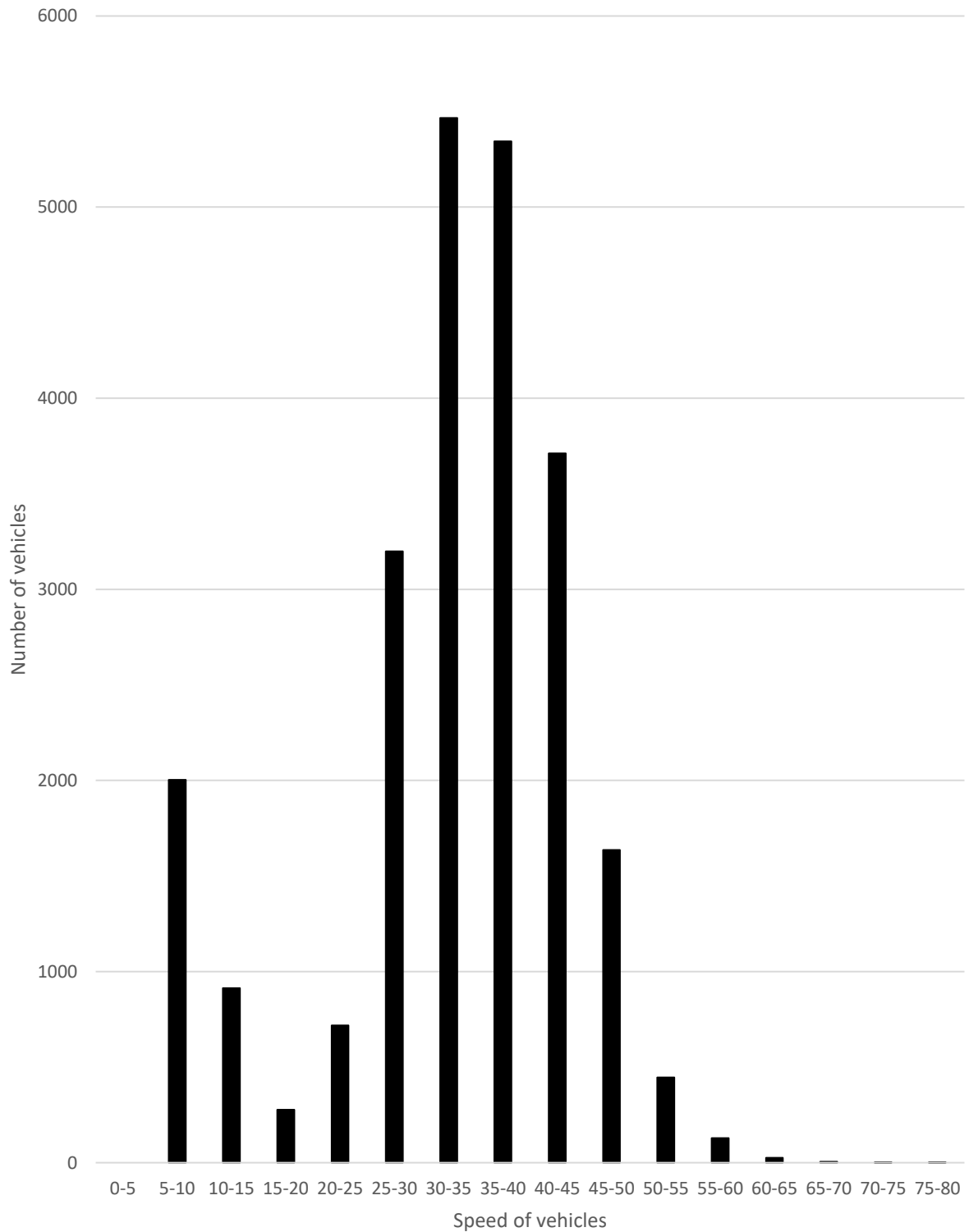
The raw data was examined; the summary table below prepared; and the data plotted on the chart overleaf.

It was noted that although the maximum speed recorded was 80 mph on 16<sup>th</sup> September, only 1 vehicle was recorded in the 75-80 mph speed class during the survey period. Similarly, only 1 vehicle was recorded in the 70-75 mph speed class.

Out of the 23,879 vehicles recorded, only 33 were travelling at more than 60 mph.

<b>Speed class mph</b>	<b>Count</b>
0-5	0
5-10	2003
10-15	914
15-20	277
20-25	719
25-30	3199
30-35	5467
35-40	5344
40-45	3711
45-50	1637
50-55	446
55-60	129
60-65	26
65-70	5
70-75	1
75-80	1
<b>Total</b>	<b>23879</b>

Bosworth Road, Northbound, Aug-Sept 2022  
Number of vehicles vs speed



C J Peat  
27<sup>th</sup> September 2022