

**Quarterly Report on Traffic and Speed Monitoring**

**a) Barton Road, street lighting column 4, northbound vehicles 26<sup>th</sup> October to 24<sup>th</sup> November 2022**

**This report includes numerous storm episodes and is of doubtful value: see list of storm episodes and analysis of selected data below.**

For Project: Barton Rd C4 NBd  
 Location/Name: Incoming  
 Report Generated: 13/12/2022 10:38:31 AM  
 Speed Intervals = 5 MPH  
 Time Intervals = Instant

**Traffic Report From 26/10/2022 09:00:00 am through 24/11/2022 07:59:59 am**

85th Percentile Speed = 30.5 MPH  
 85th Percentile Vehicles = 21,536 counts  
 Max Speed = 60.0 MPH on 16/11/2022 12:55:00  
 Total Vehicles =25,336 counts  
 AADT: 874.9

**Volumes - weekly vehicle counts**

	Time	5 Day	7 Day
Average Daily		982	844
AM Peak	08:00 to 09:00	108	83
PM Peak	04:00 to 05:00	110	90

**Speed**

Speed Limit: 30 MPH  
 85th Percentile Speed: 30.5 MPH  
 50th Percentile Speed: 18.4 MPH  
 10 MPH Pace Interval: 5.0 MPH to 15.0 MPH  
 Average Speed: 18.9 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	574	648	783	652	601	467	377
% over limit	16.2	9.5	13.1	27.4	23.2	22.3	19.7
Avg Speeder	34.0	34.4	34.3	34.1	34.3	34.4	34.7

**Storm episodes**

There were 14 storm episodes and some insignificant storm events during the survey period. Three of the storm episodes listed below (marked \*) had a significant impact on the report above, and their spacing made it difficult to select a good sequence of measurements.

Date	Time	No of spurious counts
28.10.2022	0545-0550	36
	0535-0640	227
31.10.22	1910-2015	133
	2210-0000	272
1.11.22	1115-1210	212

2.11.22	1600-1930	*1733
6.11.22	1345-1430	132
8.11.22	0130-0315	526
	1840-1925	247
15.11.22	0445-1300	*3314
20.11.22	0225-0350	220
21.11.22	1045-1320	575
	1505-1730	445
23.11.22	0640-0920	*1386

Selected data from the period 26<sup>th</sup> October to 1<sup>st</sup> November is tabulated below, and gives a more accurate picture of vehicle speeds.

**b) Barton Road, street lighting column 4, northbound vehicles, 26<sup>th</sup> October to 1<sup>st</sup> November 2022 – selected data**

For Project: Barton Rd C4 NBd  
 Location/Name: Incoming  
 Report Generated: 13/12/2022 03:10:24 PM  
 Speed Intervals = 5 MPH  
 Time Intervals = Instant

**Traffic Report From 26/10/2022 09:00:00 am through 01/11/2022 11:59:59pm**

85th Percentile Speed = 32.2 MPH  
 85th Percentile Vehicles = 4,132 counts  
 Max Speed = 55.0 MPH on 01/11/2022 18:50:00  
 Total Vehicles =4,861 counts  
 AADT: 733.7

**Volumes - weekly vehicle counts**

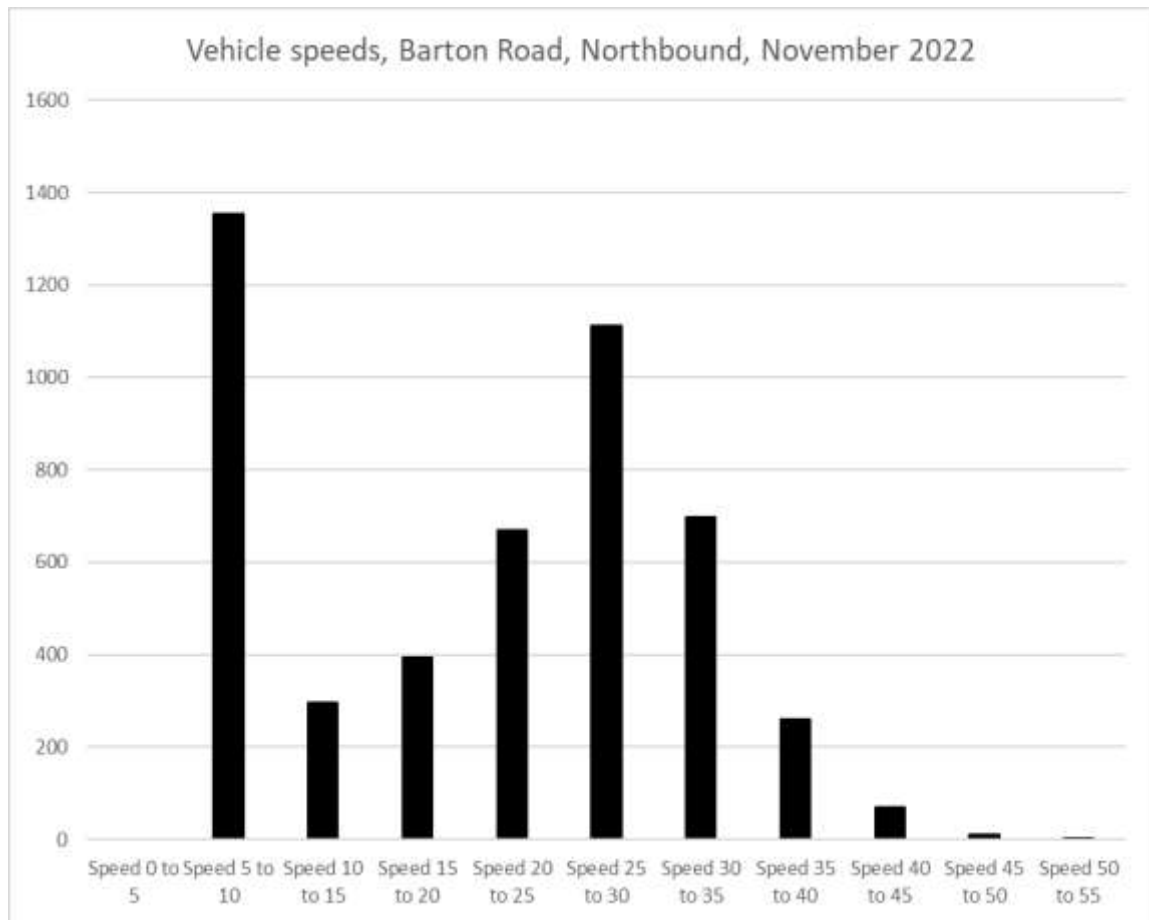
	Time	5 Day	7 Day
Average Daily		744	694
AM Peak	11:00 to 12:00	74	64
PM Peak	03:00 to 04:00	81	68

**Speed**

Speed Limit: 30 MPH  
 85th Percentile Speed: 32.2 MPH  
 50th Percentile Speed: 22.9 MPH  
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH  
 Average Speed: 21.0 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	162	172	137	170	144	157	97
% over limit	15.9	17.9	30.6	27.3	21.5	21.9	22.9
Avg Speeder	34.5	34.4	34.7	34.6	34.4	34.7	35.0

The selected data discussed above contains a significant number of storm episodes, which are responsible for the anomalous peak in the 5-10 mph speed range in the chart below.



**c) Bosworth Road, street lighting column 6, northbound vehicles, 13<sup>th</sup> December 2022 to 9<sup>th</sup> January 2023**

For Project: 2023 Bosworth Rd Nbd  
 Location/Name: Incoming  
 Report Generated: 10/01/2023 12:35:18 PM  
 Speed Intervals = 5 MPH  
 Time Intervals = Instant

**Traffic Report from 13/12/2022 11:00:00 am through 09/01/2023 07:59:59 am**

85th Percentile Speed = 41.4 MPH  
 85th Percentile Vehicles = 19,232 counts  
 Max Speed = 75.0 MPH on 24/12/2022 22:10:00  
 Total Vehicles =22,626 counts  
 AADT: 841.9

**Volumes - weekly vehicle counts**

Time	5 Day	7 Day
Average Daily	812	807
AM Peak 11:00 to 12:00	76	71
PM Peak 03:00 to 04:00	83	97

**Speed**

Speed Limit: 30 MPH  
 85th Percentile Speed: 41.4 MPH  
 50th Percentile Speed: 32.3 MPH  
 10 MPH Pace Interval: 30.0 MPH to 40.0 MPH  
 Average Speed: 29.3 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	1205	1929	2371	2453	2533	1880	1234
% over limit	66.2	65.1	72.4	76.4	50.8	66.5	34.8
Avg Speeder	38.0	37.8	37.8	37.9	37.7	38.2	38.5

**Storm episodes**

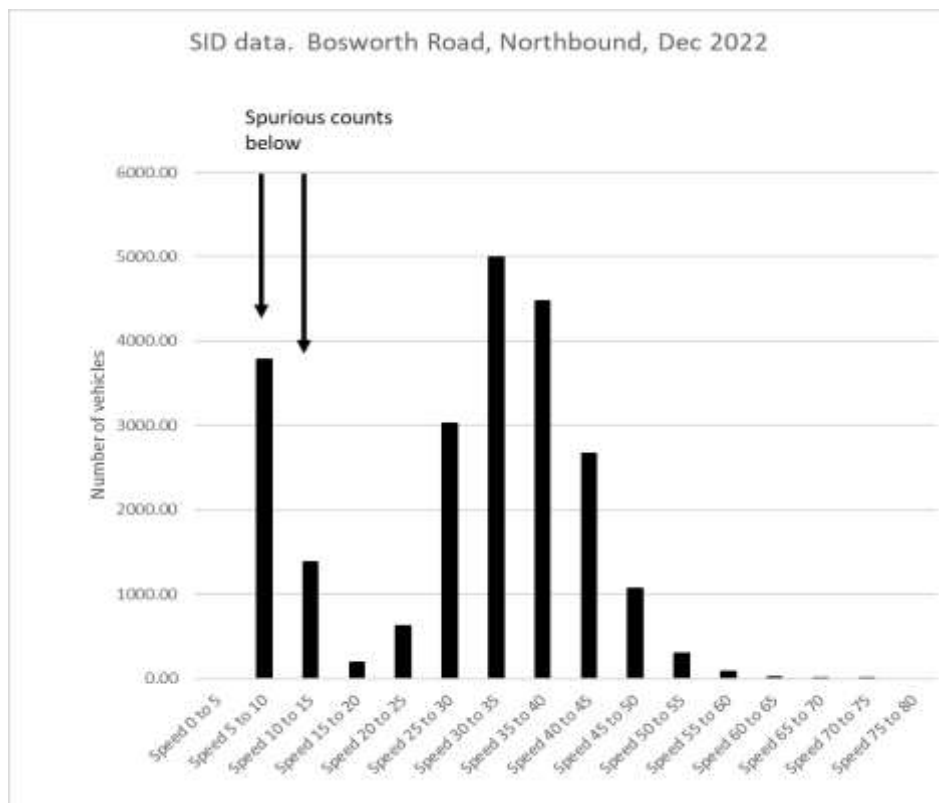
There were numerous short storm episodes involving less than 100 counts in this data set. More significant storm episodes were:

Date	Time	Counts
18.12.2022	1500-1725	1663
18.12.22	2340-0055	275
23.12.22	0750-1215	1544
27.12.22	1750-1910	307

These spurious count will have reduced the 85<sup>th</sup> and 50<sup>th</sup> percentile speeds.

**Chart**

All of the data have been plotted on the chart below. The two peaks at 5-10 and 10-15 mph represent spurious counts and should be ignored. The majority of vehicles approaching the SID were traveling at less than 50 mph.



**d) Main Street, street lighting column 18, eastbound vehicles, 10<sup>th</sup> January to 6<sup>th</sup> February 2023**

For Project: 2023 Main St C18 EBd  
 Location/Name: Incoming  
 Report Generated: 07/02/2023 10:56:06 AM  
 Speed Intervals = 5 MPH  
 Time Intervals = Instant

**Traffic Report From 10/01/2023 12:00:00 pm through 06/02/2023 08:59:59 am**

85th Percentile Speed = 32.7 MPH  
 85th Percentile Vehicles = 16,607 counts  
 Max Speed = 55.0 MPH on 16/01/2023 23:35:00  
 Total Vehicles =19,538 counts  
 AADT: 727.0

**Volumes - weekly vehicle counts**

	Time	5 Day	7 Day
Average Daily		775	697
AM Peak	08:00 to 09:00	104	80
PM Peak	03:00 to 04:00	91	76

**Speed**

Speed Limit: 30 MPH  
 85th Percentile Speed: 32.7 MPH  
 50th Percentile Speed: 27.3 MPH  
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH  
 Average Speed: 26.2 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	668	727	959	874	930	574	415
% over limit	29.2	25.5	23.8	28.7	28.2	25.0	24.0
Average Speeder	33.6	33.7	33.6	33.6	33.5	34.0	33.8

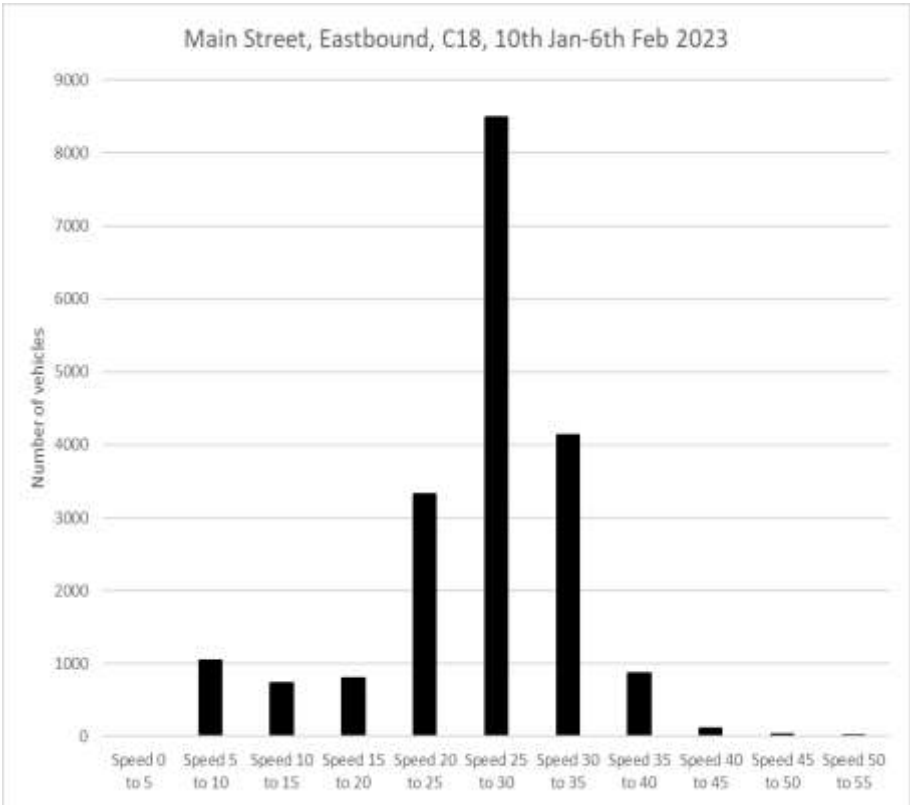
**Storm episodes**

There was one significant storm episode, and a number of less significant storm events.

11.01.2023            1325 – 1450 hrs            537 spurious counts

The net result was a count of 1,038 vehicles recorded with speed between 5 and 10 mph and 736 with speed between 10 and 15 mph. These totals should probably be in the region of 200 and 400 respectively.

Chart



C J Peat  
1st March 2023