

Traffic and speed monitoring

a) Main Street, street lighting column 7, westbound vehicles, 7th February to 14th March 2023

For Project: 2023 Main St C7 WBd
 Location/Name: Incoming
 Report Generated: 14/03/2023 10:37:44 AM
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report From 07/02/2023 11:00:00am through 14/03/2023 10:59:59am

85th Percentile Speed = 32.8 MPH
 85th Percentile Vehicles = 17,059 counts
 Max Speed = 55.0 MPH on 25/02/2023 06:15:00
 Total Vehicles =20,069 counts
 AADT: 573.4

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		752	681
AM Peak	08:00 to 09:00	102	80
PM Peak	03:00 to 04:00	71	61

Speed

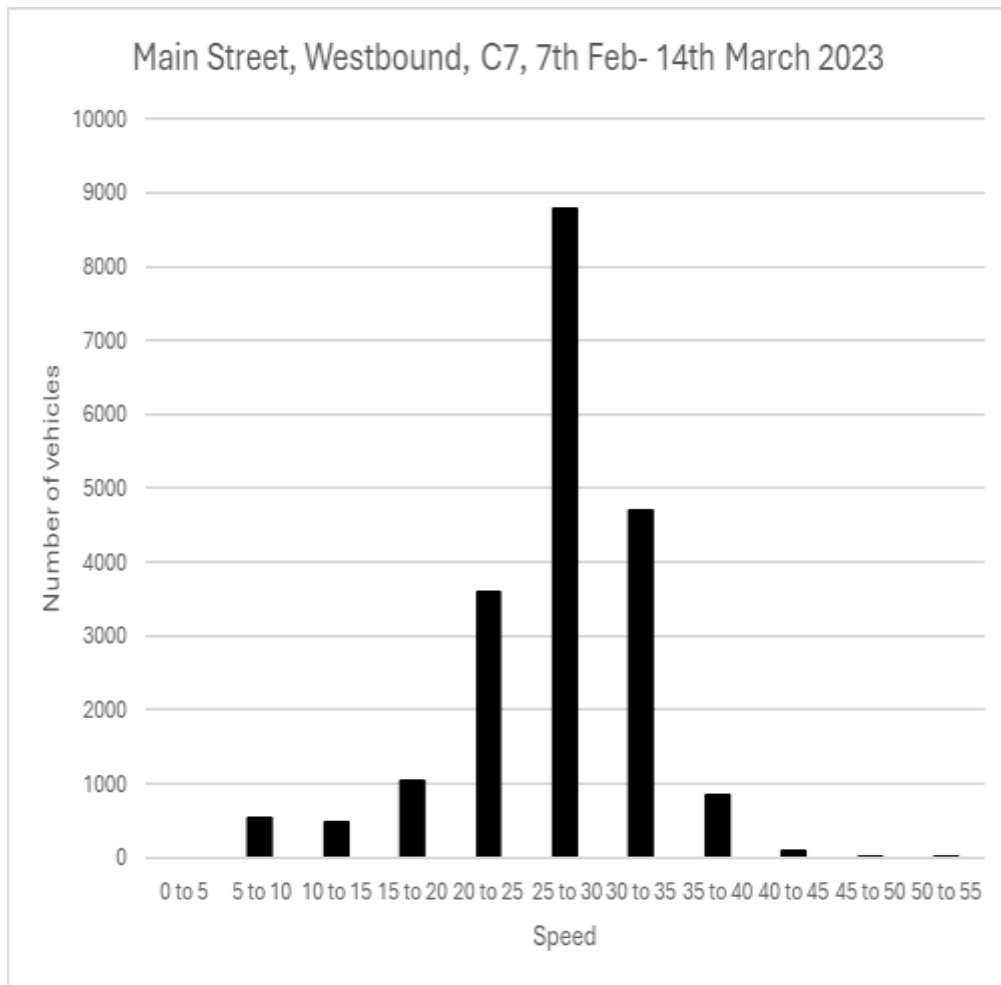
Speed Limit: 30 MPH
 85th Percentile Speed: 32.8 MPH
 50th Percentile Speed: 27.5 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 26.9 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	943	905	946	913	867	578	494
% over limit	30.1	30.9	26.7	29.2	26.3	25.7	27.5
Average Speeder	33.3	33.5	33.4	33.6	33.5	33.3	33.5
Average Speed	14.9	15.2	13.6	15.2	14.5	17.0	17.9

Storm episodes

There were no significant storm episodes in this data set.

Chart



b) Nailstone Road, street lighting column 4, southbound vehicles, 14th March to 13th April 2023

Location/Name: Incoming
 Report Generated: 13/04/2023 10:45:35am
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report From 14/03/2023 10:00:00 am through 13/04/2023 09:59:59 am

85th Percentile Speed = 36.9 MPH
 85th Percentile Vehicles = 19,384 counts
 Max Speed = 55.0 MPH on 14/03/2023 12:15:00
 Total Vehicles = 22,805 counts
 AADT: 760.2

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		793	732
AM Peak	07:00 to 08:00	92	73
PM Peak	04:00 to 05:00	74	63

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 36.9 MPH
 50th Percentile Speed: 31.3 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 30.8 MPH

	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Count over limit	1853	2416	2368	2367	2128	1477	1084
% over limit	61.3	61.2	61.5	63.7	58.3	56.8	53.6
Avg Speeder	34.7	34.8	34.5	34.7	34.7	34.6	34.8
Avg Speed	17.4	17.3	15.8	16.2	16.0	19.5	20.0

Storm episodes

There were two minor storm episodes:

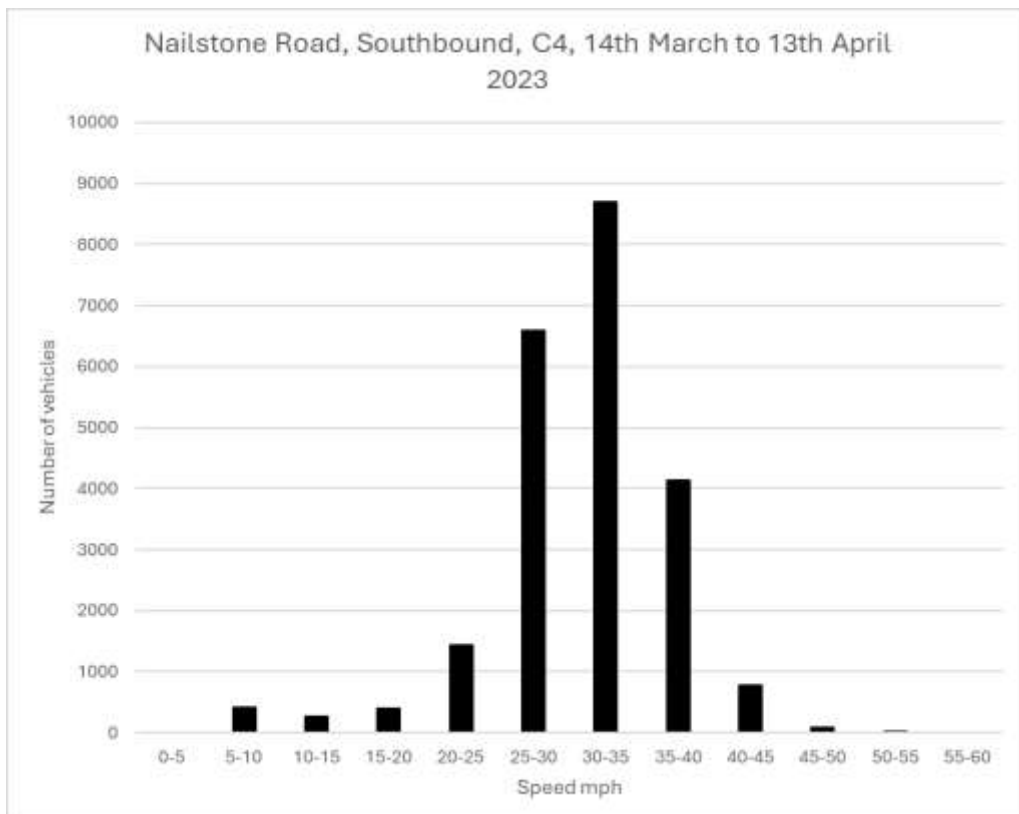
Date	Time	Number of false counts
26.3.2023	0520-0540	120
31.3.2023	1250-1335	80

The data have not been edited. The effect of these false counts is to create a false peak of 407 vehicles at 5-10 mph, which is shown in the chart below.

Vehicle counts

Speed	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
Count	0	407	273	403	1438	6591	8694	4131	770	84	14	0

Chart



c) Barton Road, street lighting column 4, southbound vehicles, 13th April to 6th June 2023

Report Generated: 06/06/2023 03:22:14 PM
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report from 13/04/2023 10:00:00 am through 06/06/2023 01:59:59 pm

85th Percentile Speed = 36.7 MPH
 85th Percentile Vehicles = 10,451 counts
 Max Speed = 60.0 MPH on 17/04/2023 08:50:00
 Total Vehicles =12,295 counts
 AADT: 227.0

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		405	394
AM Peak	07:00 to 08:00	71	56
PM Peak	04:00 to 05:00	37	35

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 36.7 MPH
 50th Percentile Speed: 29.0 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 26.7 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	663	913	919	993	928	581	555
% over limit	51.9	53.5	50.1	52.3	35.1	43.9	34.5
Avg Speeder	35.6	35.7	35.8	35.5	35.4	34.9	35.3
Avg Speed	23.2	21.1	20.4	21.5	15.0	22.2	17.2

Storm episodes

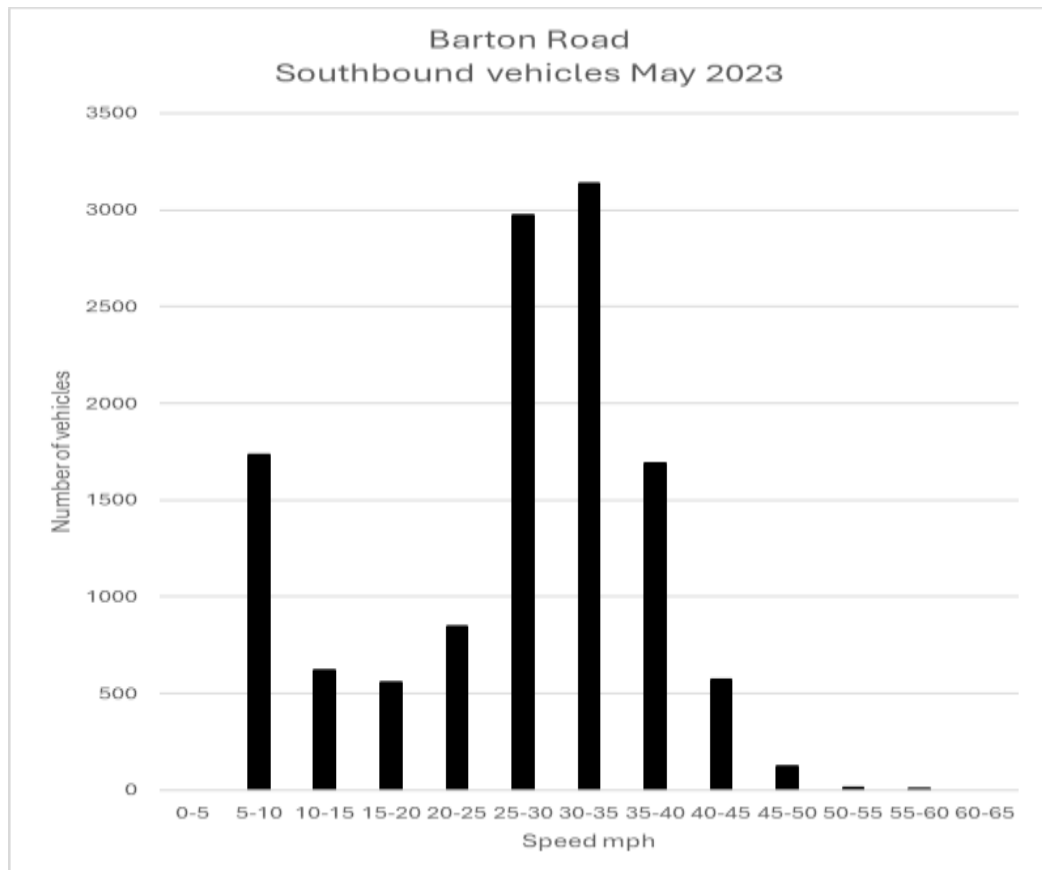
There were four significant storm episodes in this data set:

14.4.2023	1510-1805	352
21.4.2023	0440-0535	112
	0715-0815	376
23.4.2023	1420-1530	248

Vehicle counts

Speed	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
Count	0	1736	622	561	848	2976	3138	1694	574	124	15	7	0

Chart



The counts in the 5-10 and 10-15mph ranges include spurious counts from storm episodes.

d) Bosworth Road, street lighting column 6, northbound vehicles, 6th June 2023 to 2nd July 2023

Location/Name: Incoming
 Report Generated: 07/07/2023 12:03:35
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report From 06/06/2023 14:00:00 through 02/07/2023 23:59:59

85th Percentile Speed = 43.8 MPH
 85th Percentile Vehicles = 19,422 counts
 Max Speed = 75.0 MPH on 18/06/2023 22:20:00
 Total Vehicles =22,850 counts
 AADT: 865.0

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		923	848
AM Peak	07:00 to 08:00	105	82
PM Peak	15:00 to 16:00	117	99

Speed

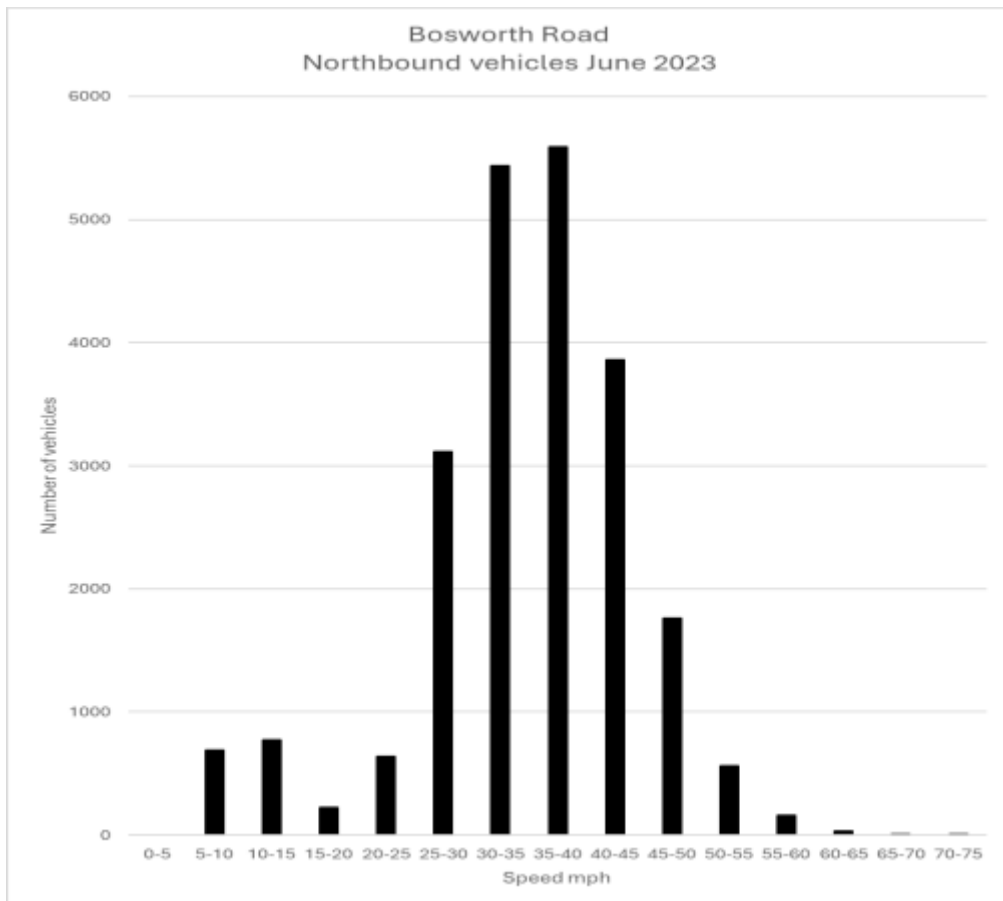
Speed Limit: 30 MPH
 85th Percentile Speed: 43.8 MPH
 50th Percentile Speed: 35.5 MPH
 10 MPH Pace Interval: 30.0 MPH to 40.0 MPH
 Average Speed: 34.7 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	2017	2403	3110	3086	3036	2112	1644
% over limit	72.9	79.7	77.8	78.1	79.4	73.0	68.5
Avg Speeder	39.2	38.9	38.5	38.7	38.8	38.9	38.5
Avg Speed	20.6	21.8	20.3	20.8	21.6	24.0	23.8

Storm episodes

There were no significant storm episodes in this data set.

Chart



e) Main Street, street lighting column 18, eastbound vehicles, 7th July 2023 to 5th August 2023

Location/Name: Incoming
 Report Generated: 24/08/2023 10:44:13
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report from 07/07/2023 11:00:00 through 05/08/2023 09:59:59

85th Percentile Speed = 29.0 MPH
 85th Percentile Vehicles = 18,167 counts
 Max Speed = 45.0 MPH on 10/07/2023 16:40:00
 Total Vehicles =21,373 counts
 AADT: 738.1

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		691	709
AM Peak	07:00 to 08:00	44	50
PM Peak	15:00 to 16:00	72	64

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 29.0 MPH
 50th Percentile Speed: 22.8 MPH
 10 MPH Pace Interval: 20.0 MPH to 30.0 MPH
 Average Speed: 20.3 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	293	286	292	268	354	215	147
% over limit	10.6	10.1	9.1	10.1	12.0	4.7	6.2
Avg Speeder	32.9	32.9	33.0	33.0	33.0	33.0	32.8
Avg Speed	13.0	12.9	11.7	14.1	14.7	7.0	10.9

Storm episodes

The weather during the survey period was characterised by squally showers, and this is reflected in the fact that 23 significant storm episodes were detected in a visual scan of the raw data.

Date	Time	No of spurious counts
8.7.2023	1035-1040	26
	1155-1200	15
	1935-2020	357
	2110-2135	119
9.7.23	1625-1715	149
10.7.23	2205-2215	33
11.7.23	1155-1225	139
	2023-1610	132
12.7.23	1235-1305	67
	1340-1350	104
13.7.23	1435-1515	147
15.7.23	1035-1050	135
	1215-1310	88
16.7.23	1115-1140	189
	1315-1450	221
	1650-1705	95
22.7.23	0725-1540	1349
	1945-2240	386

26.7.23	1445-1710	177
	1910-2115	342
30.7.23	1705-1745	112
31.7.23	1125-1250	207
	2035-2045	90
Total		4679

Minor storm episodes were not counted. In the table below the total count of 5298 vehicles travelling at 5-10 mph is probably inflated by 5000, and possibly more.

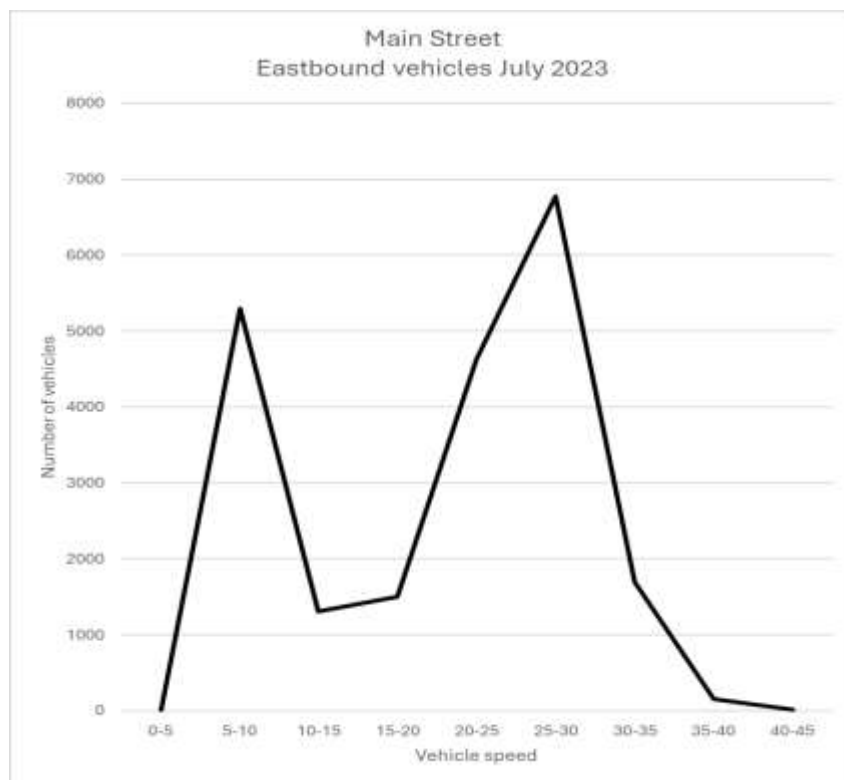
Table of total vehicle counts by speed class

Vehicle Speed	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
Total counts	0	5298	1309	1498	4634	6779	1693	152	10

Total number of counts: 21,373.

Chart

In the chart overleaf, the left hand peak can safely be ignored.



f) Nailstone Road, street lighting column 4, southbound vehicles, 28th November to 17th December 2023

For Project: 2023 Nailstone Rd C4 SBd
 Location/Name: Incoming
 Report Generated: 17/12/2023 10:52:16
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report From 28/11/2023 11:00:00 through 17/12/2023 10:59:59

85th Percentile Speed = 34.4 MPH
 85th Percentile Vehicles = 14,965 counts
 Max Speed = 55.0 MPH on 30/11/2023 12:25:00
 Total Vehicles =17,606 counts
 AADT: 926.6

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		1,088	910
AM Peak	08:00 to 09:00	163	123
PM Peak	15:00 to 16:00	82	73

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 34.4 MPH
 50th Percentile Speed: 29.2 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 27.9 MPH

	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Count over limit	914	1105	1451	1403	1444	924	508
% over limit	30.0	44.3	45.1	46.3	47.8	53.1	48.2
Avg Speeder	33.8	34.0	33.9	33.9	34.0	34.4	33.9
Avg Speed	9.0	14.1	13.9	14.2	14.6	19.8	18.6

Storm episodes

There were several minor storm episodes, and three major ones:

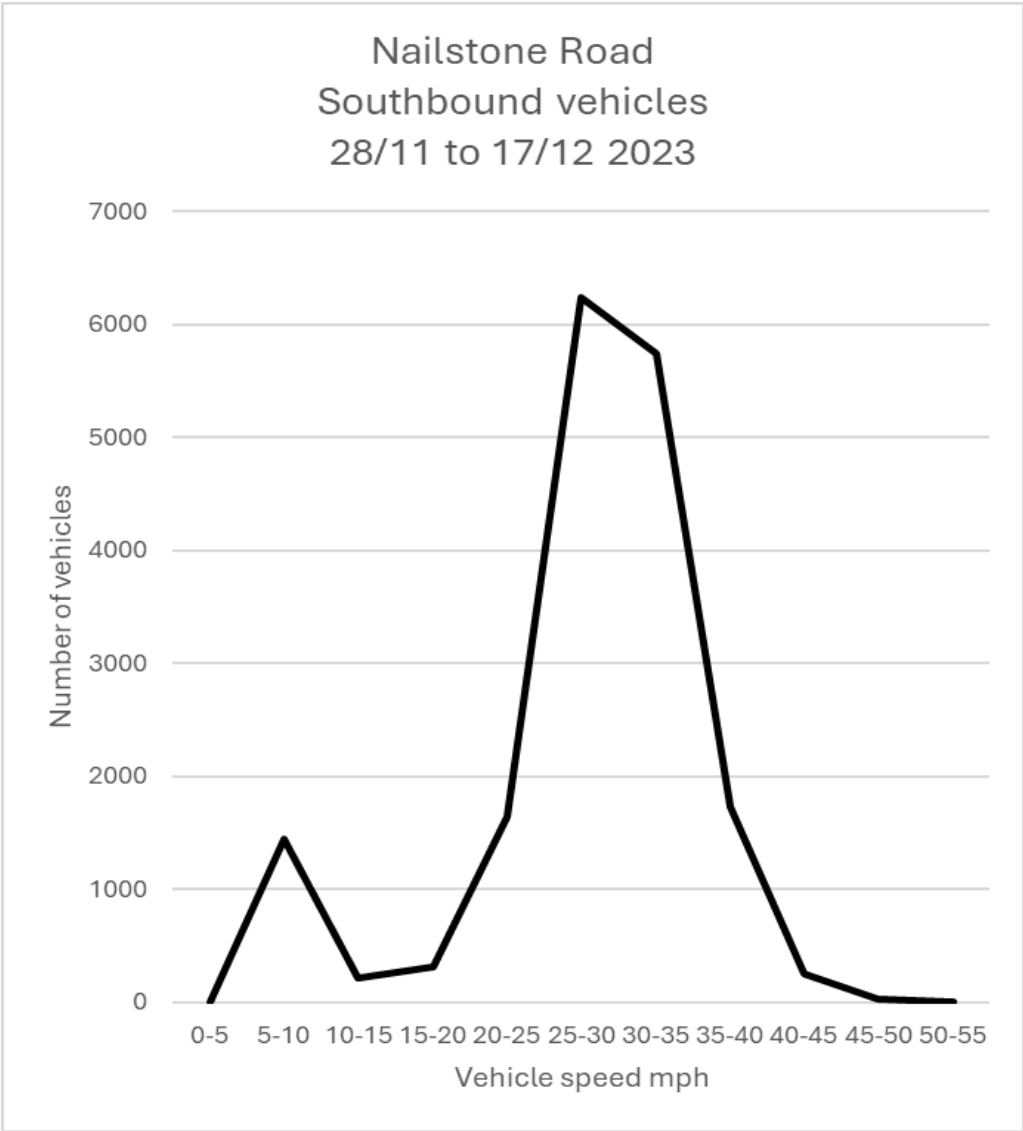
Date	Time	Number of false counts
4.12.2023	0125-0605	810
	0640-0810	186
12.12.2023	1815-1910	82

The data have not been edited. The effect of these false counts is to create a false peak of 1445 vehicles in the 5-10 mph range in the table and chart below.

Vehicle counts

Speed	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
Count	0	1445	216	314	1641	6241	5740	1733	251	21	4	0

Chart



C J Peat

31st December 2023