

Traffic and speed monitoring December 2023 – October 2024

a) Bosworth Road, street lighting column 6, northbound vehicles, 17th December 2023 to 24th January 2024

For Project: 2024 Bosworth Rd C6 NBd
 Location/Name: Incoming
 Report Generated: 24/01/2024 10:48:27
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic Report From 17/12/2023 11:00:00 through 24/01/2024 10:59:59

85th Percentile Speed = 39.9 MPH
 85th Percentile Vehicles = 23,264 counts
 Max Speed = 80.0 MPH on 27/12/2023 21:00:00
 Total Vehicles = 27,369 counts
 AADT: 720.2

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		1,055	960
AM Peak	04:00 to 05:00	173	73
PM Peak	12:00 to 13:00	93	84

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 39.9 MPH
 50th Percentile Speed: 28.0 MPH
 10 MPH Pace Interval: 5.0 MPH to 15.0 MPH
 Average Speed: 24.7 MPH

	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Count over limit	1601	1980	2211	2176	1961	1216	1366
% over limit	28.1	44.9	31.7	75.6	77.0	42.9	67.5
Avg Speeder	38.0	37.9	38.1	38.2	38.3	38.3	38.1
Avg Speed	9.1	13.2	9.5	22.6	23.1	14.8	23.0

Storm episodes

There were 8 significant storm episodes during the survey period, as tabulated below. The false counts generated account for the high numbers of counts in the 5-10 and 10-15 mph ranges in the table and chart below.

Date	Time	Number of false counts
26.12.23	2350-0105	326
27.12.23	0215-0945	2999
	1225-1330	543

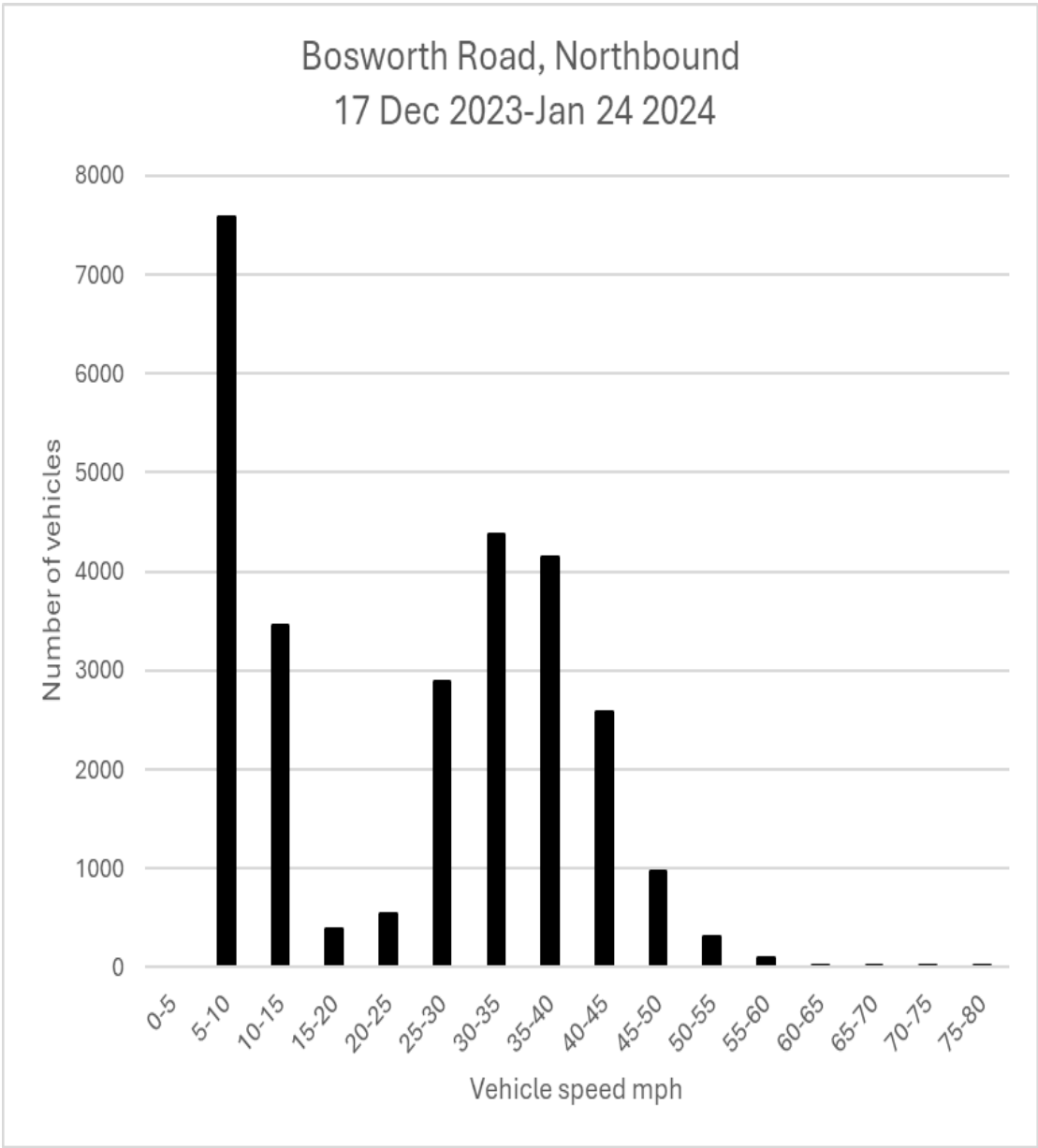
30.12.23	1900-1950	189
	2045-2320	808
31.12.23	0430-0550	127
1.1.24	1605-2245	3574
2.1.24	0910-1415	1704

Chart data

Speed mph	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
No of vehicles	0	7578	3457	388	546	2889	4379	4149	2589

Speed mph	45-50	50-55	55-60	60-65	65-70	70-75	75-80
No of vehicles	973	309	95	11	2	3	1

Chart



b) Main Street, street lighting column 18, westbound vehicles, 24th January to 17th February 2024

For Project: 2024 Main St C18 WBd
 Location/Name: Incoming
 Report Generated: 27/02/2024 14:58:08
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic report from 24/01/2024 11:00:00 through 17/02/2024 09:59:59

85th Percentile Speed = 31.3 MPH
 85th Percentile Vehicles = 16,615 counts
 Max Speed = 55.0 MPH on 04/02/2024 04:45:00
 Total Vehicles =19,547 counts
 AADT: 815.9

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		911	769
AM Peak	08:00 to 09:00	122	94
PM Peak	15:00 to 16:00	76	65

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 31.3 MPH
 50th Percentile Speed: 25.8 MPH
 10 MPH Pace Interval: 20.0 MPH to 30.0 MPH
 Average Speed: 23.5 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	509	548	684	694	672	385	244
% over limit	21.5	22.6	22.6	12.5	20.7	22.8	20.1
Average Speeder	33.2	33.3	33.3	33.2	33.4	33.7	33.7
Average Speed	13.4	13.3	13.8	8.0	13.3	17.3	17.9

Storm episodes

There were three significant storm episodes during the survey period, as tabulated below.
 The false counts generated account for the high numbers of counts in the
 5-10 mph range in the table and chart below.

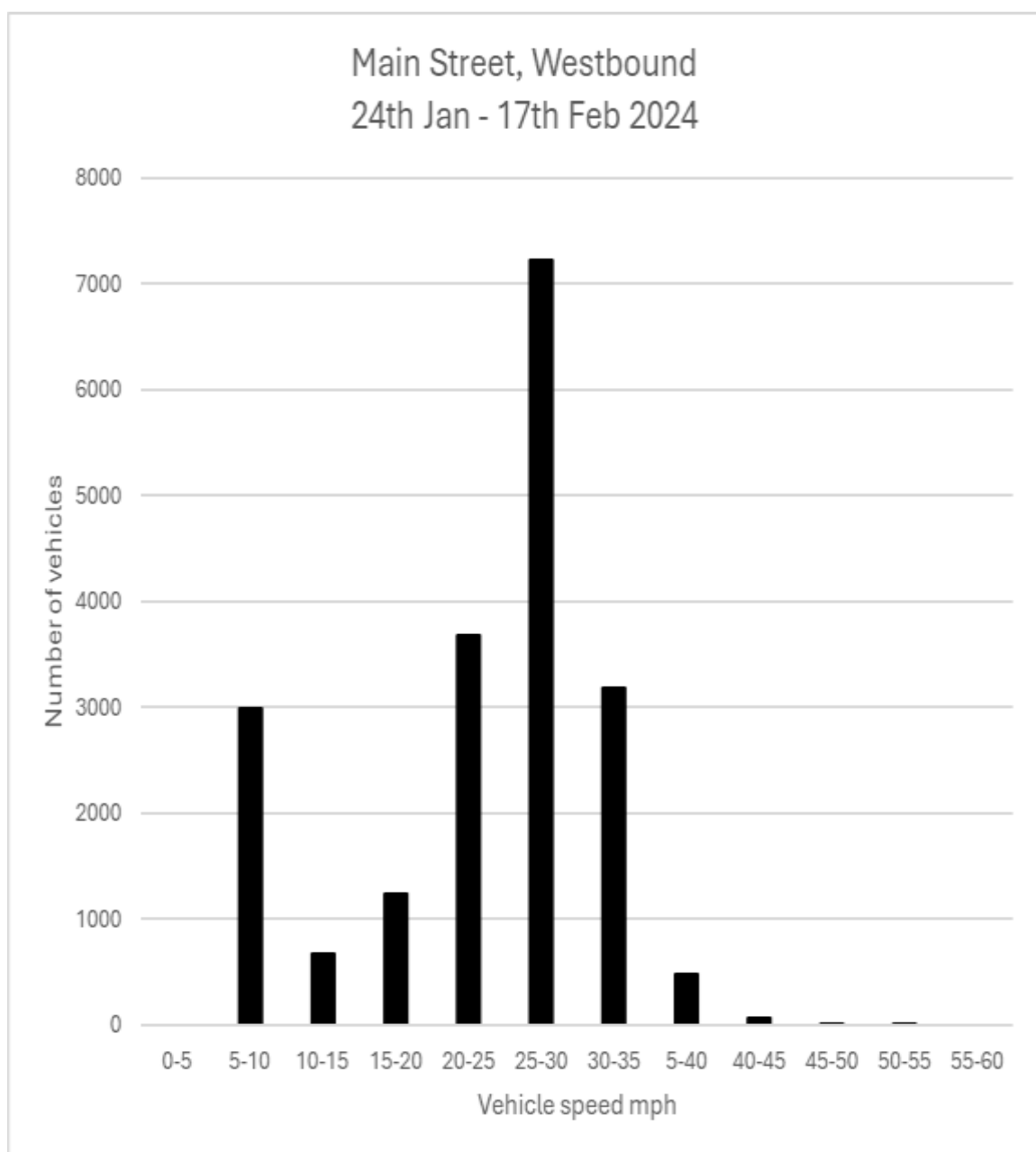
Date	Time	Number of false counts
8.2.2023	0740-1015	771
	1845-2305	1708
	2350-0050	336

Chart data

Speed	0-5	5-10	10-15	15-20	20-25	25-30
Number of vehicles	0	2996	673	1242	3677	7223

Speed	30-35	5-40	40-45	45-50	50-55	55-60
Number of vehicles	3182	479	69	4	2	0

Chart



c) Barton Road, street lighting column 4, southbound vehicles, 27th February to 25th March 2024

For Project: 2024 Barton Rd C4 SBd
 Location/Name: Incoming
 Report Generated: 03/04/2024 17:21:30
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic report from 27/02/2024 15:00:00 through 25/03/2024 09:59:59

85th Percentile Speed = 38.0 MPH
 85th Percentile Vehicles = 8,252 counts
 Max Speed = 60.0 MPH on 14/03/2024 15:05:00
 Total Vehicles = 9,708 counts
 AADT: 362.4

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		350	346
AM Peak	08:00 to 09:00	60	46
PM Peak	15:00 to 16:00	34	31

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 38.0 MPH
 50th Percentile Speed: 31.2 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 29.8 MPH

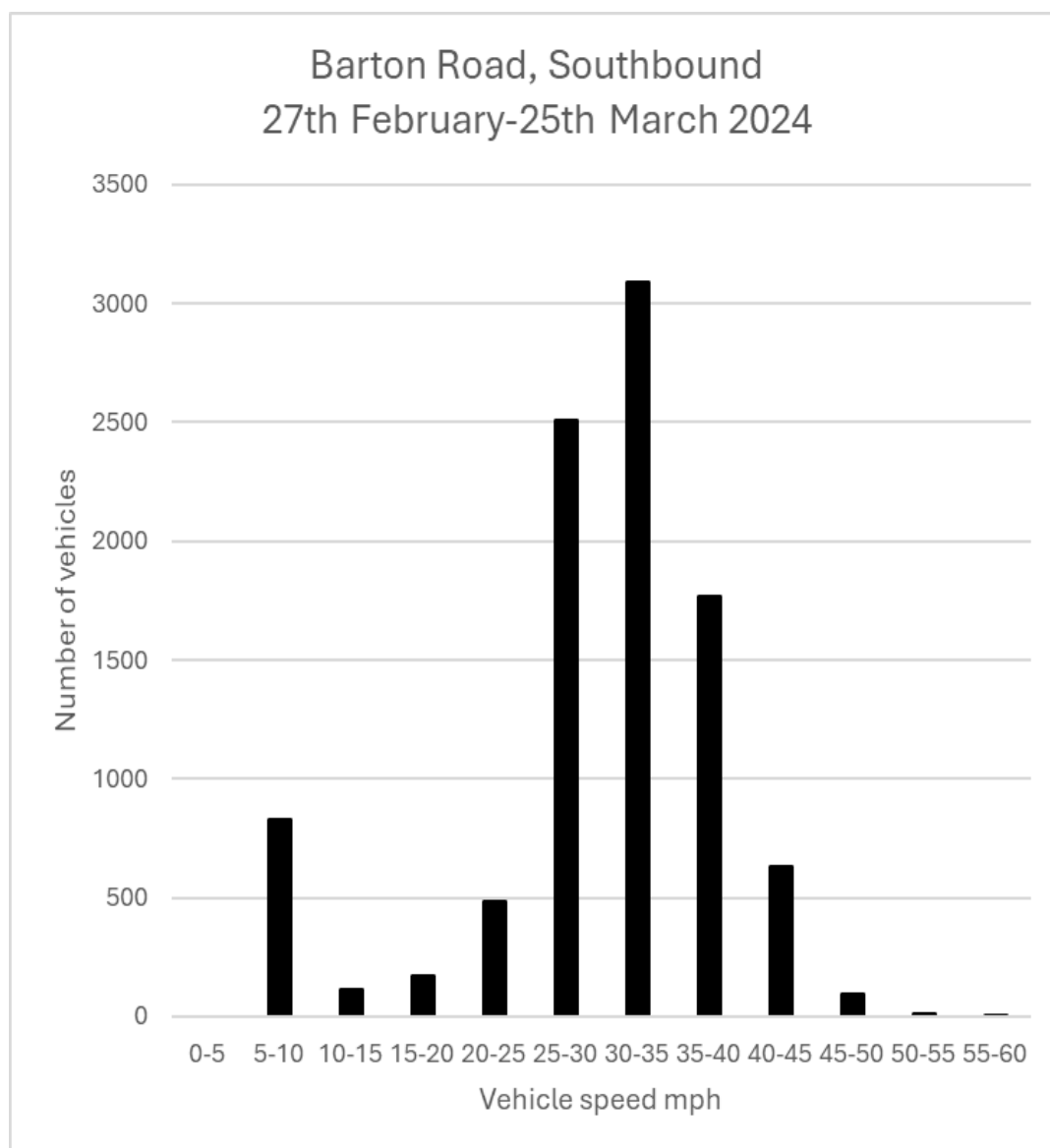
	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	739	760	876	1003	1067	665	489
% over limit	64.9	61.0	62.2	64.0	64.2	58.8	31.4
Avg Speeder	35.5	35.6	35.6	35.8	35.5	35.2	35.1
Avg Speed	23.1	23.3	23.3	23.0	22.2	24.6	14.2

Storm episodes

There were 7 storm episodes in this data set, six on the same day.

Date	Time	Number of false counts
10.3.2024	0310-0620	155
	1130-1415	183
	1500-1510	35
	1600-1605	21
	1655-1915	101
	1950-2150	116
24.3.2024	0050-0110	115

Chart



d) Nailstone Road, street lighting column 4, southbound vehicles, 2nd May to 15th May 2024

For Project: 2024 Nailstone Road C4 Sbd

Location/Name: Incoming

Report Generated: 15/05/2024 10:39:09

Speed Intervals = 5 MPH

Time Intervals = Instant

Traffic report from 02/05/2024 11:00:00 through 15/05/2024 10:59:59

85th Percentile Speed = 36.9 MPH

85th Percentile Vehicles = 7,188 counts

Max Speed = 65.0 MPH on 05/05/2024 05:45:00

Total Vehicles = 8,457 counts

AADT: 650.5

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		668	603
AM Peak	08:00 to 09:00	118	90
PM Peak	15:00 to 16:00	69	58

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	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	720	912	697	838	943	532	446
% over limit	61.4	62.5	62.5	58.5	62.8	58.1	51.9
Avg Speeder	34.5	34.7	34.6	34.6	34.5	35.1	35.0
Avg Speed	18.8	17.6	16.1	17.1	16.9	22.9	22.0

Storm episodes

There were no storm episodes in this data set.

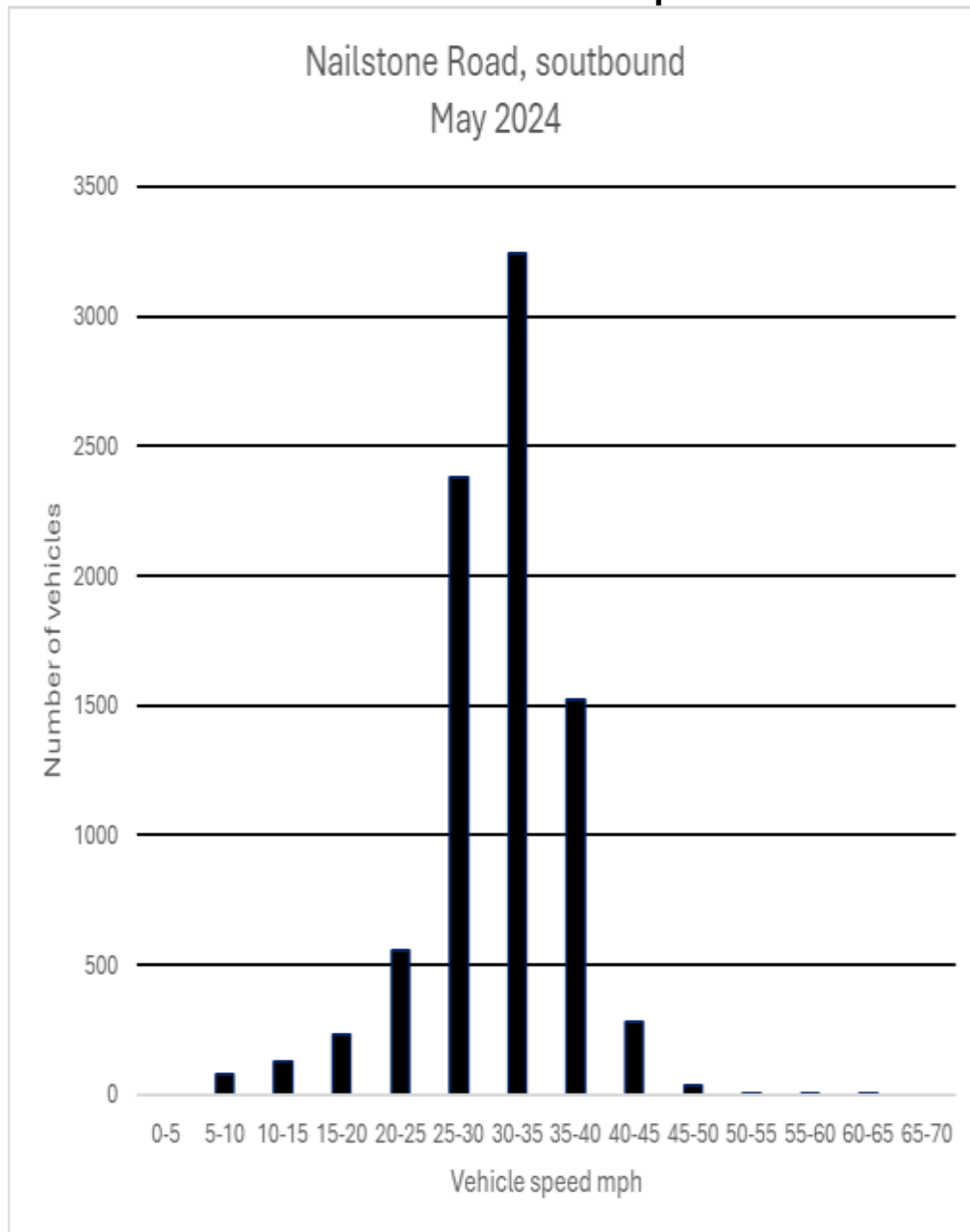
Data

Speed mph	0-5	5-10	10-15	15-20	20-25	25-30	30-35
Number of vehicles	0	79	129	229	553	2379	3241

Speed mph	35-40	40-45	45-50	50-55	55-60	60-65	65-70
Number of vehicles	1525	278	34	5	3	2	0

Chart

On next page



e) Bosworth Road, street lighting column 6, northbound vehicles 15th May to 10th June 2024

For Project: 2024 Bosworth Rd C6 NBd
 Location/Name: Incoming
 Report Generated: 12/06/2024 10:56:03
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic report from 15/05/2024 11:00:00 through 10/06/2024 08:59:59

85th Percentile Speed = 43.6 MPH
 85th Percentile Vehicles = 16,992 counts
 Max Speed = 80.0 MPH on 25/05/2024 00:40:00
 Total Vehicles = 19,990 counts
 AADT: 771.3

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		788	741
AM Peak	08:00 to 09:00	87	68
PM Peak	15:00 to 16:00	95	81

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 43.6 MPH
 50th Percentile Speed: 35.5 MPH
 10 MPH Pace Interval: 30.0 MPH to 40.0 MPH
 Average Speed: 34.8 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	1879	1845	2601	2707	2918	1882	1504
% over limit	77.3	78.2	80.1	80.8	81.3	73.2	61.6
Avg Speeder	38.3	38.7	38.8	38.8	38.8	38.7	38.1
Avg Speed	21.5	22.5	21.8	22.1	21.6	24.9	21.9

Storm episodes

There were several short storm episodes. These were not considered significant, but account for the small secondary peak between 5 and 15 mph.

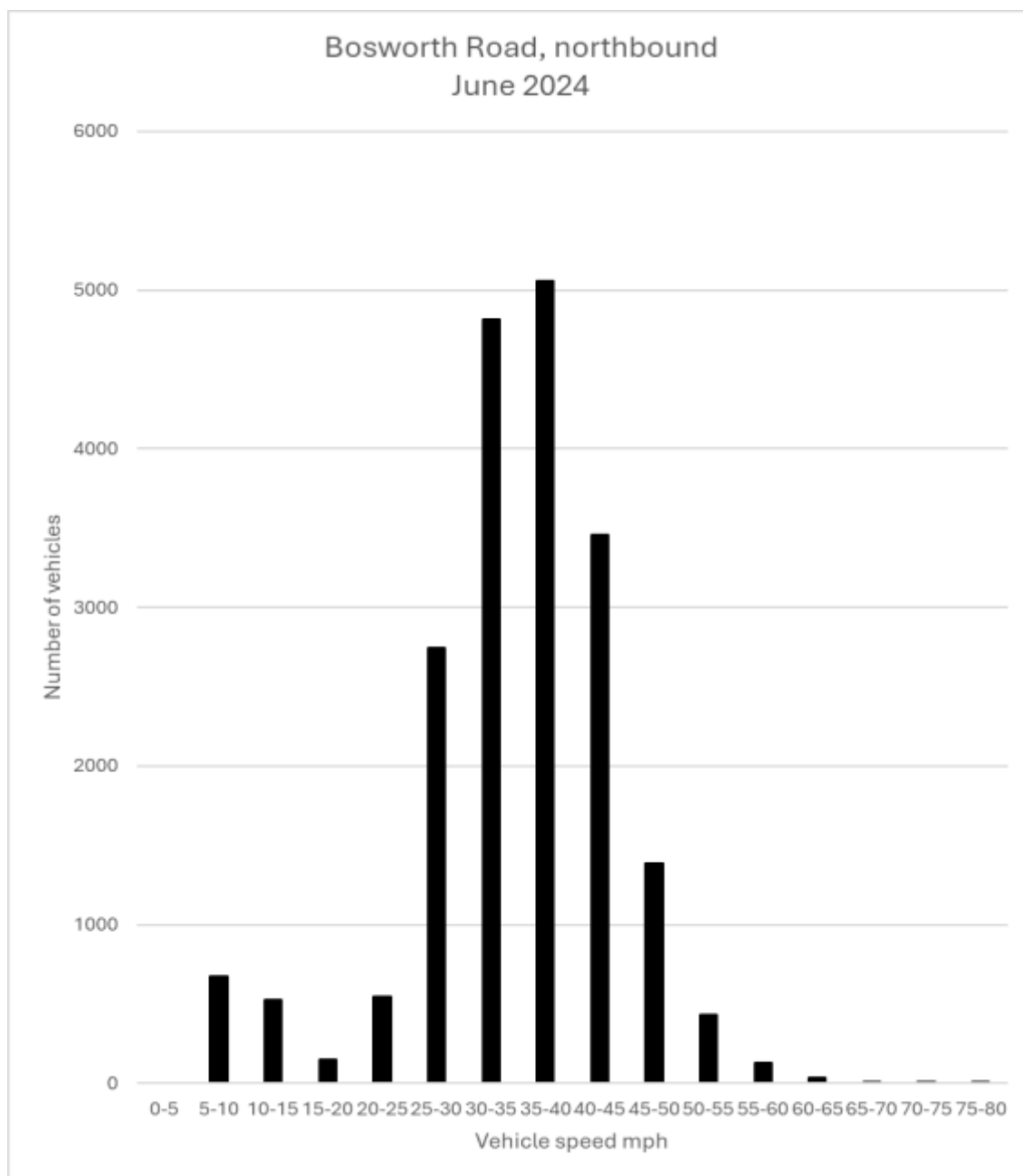
Chart data

Speed mph	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
No of vehicles	0	676	530	154	550	2744	4817	5058

Speed mph	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80
No of vehicles	3457	1388	433	133	38	7	4	1

Chart

See following page



f) Main Street, street lighting column 7, westbound vehicles 12th June to 10th July 2024

For Project: 2024 Main St C7 WBd

Location/Name: Incoming

Report Generated: 10/07/2024 12:34:53

Speed Intervals = 5 MPH

Time Intervals = Instant

Traffic report from 12/06/2024 10:00:00 through 10/07/2024 12:59:59

85th Percentile Speed = 32.8 MPH

85th Percentile Vehicles = 19,202 counts

Max Speed = 55.0 MPH on 18/06/2024 19:50:00

Total Vehicles = 22,590 counts

AADT: 803.2

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		879	781
AM Peak	08:00 to 09:00	102	79
PM Peak	15:00 to 16:00	72	63

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 32.8 MPH
 50th Percentile Speed: 27.2 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 25.9 MPH

	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Count over limit	1023	1061	1065	944	1025	638	533
% over limit	32.0	22.3	30.1	28.4	29.3	27.0	27.7
Avg Speeder	33.6	33.7	33.4	33.5	33.6	33.7	33.7
Avg Speed	15.1	10.9	14.3	14.9	15.0	17.5	18.5

Storm episodes and chart

The raw dataset was deleted by mistake during data processing and cannot be recovered. No information is available on storm episodes, no graph can be produced and no further analysis is possible.

Please accept my apology for this error.

g) Main Street, street lighting column 7, eastbound vehicles 10th July to 6th August 2024

Traffic analysis report

For Project: 2024 Main St C7 EBd
 Location/Name: Incoming
 Report Generated: 09/08/2024 11:27:44
 Speed Intervals = 5 MPH
 Time Intervals = Instant

Traffic report from 10/07/2024 12:00:00 through 06/08/2024 07:59:59

85th Percentile Speed = 32.7 MPH
 85th Percentile Vehicles = 14,645 counts
 Max Speed = 60.0 MPH on 11/07/2024 05:50:00
 Total Vehicles = 17,229 counts
 AADT: 642.1

Note - Station Road, Market Bosworth was closed for part of this period, with traffic diverted through Carlton.

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		647	614
AM Peak	09:00 to 10:00	47	46
PM Peak	16:00 to 17:00	66	58

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 32.7 MPH
 50th Percentile Speed: 27.2 MPH
 10 MPH Pace Interval: 25.0 MPH to 35.0 MPH
 Average Speed: 26.5 MPH

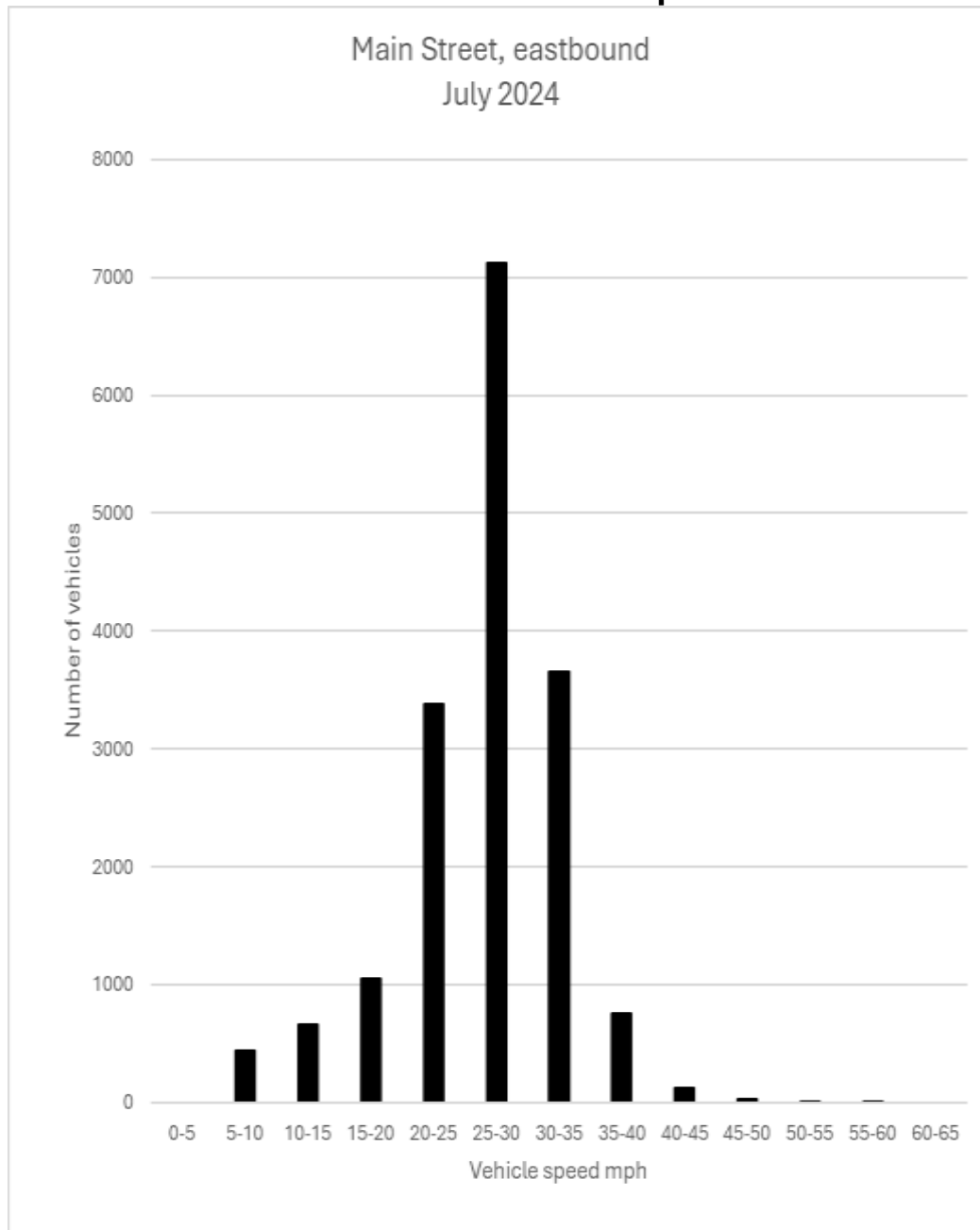
	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	794	587	768	803	766	459	392
% over limit	30.6	27.7	29.1	28.8	27.1	20.3	19.6
Avg Speeder	33.7	33.6	33.8	33.7	33.7	33.8	33.7
Avg Speed	16.9	16.2	15.9	16.4	16.3	16.3	16.7

Storm episodes

There were no major storm episodes in this data set. There were several flurries of activity in the 5-10 mph range, probably caused by blown rubbish or birds. These amounted to about 80 spurious records in total and are not significant.

Chart

See following page.



h) Main Street, street lighting column 18, eastbound vehicles, 9th August to 5th September 2024

For Project: Main St C18 EBd

Location/Name: Incoming

Report Generated: 13/09/2024 14:39:32

Speed Intervals = 5 MPH

Time Intervals = Instant

Traffic report from 09/08/2024 11:00:00 through 05/09/2024 15:59:59

85th Percentile Speed = 29.5 MPH

85th Percentile Vehicles = 15,513 counts

Max Speed = 55.0 MPH on 25/08/2024 11:35:00

Total Vehicles = 18,251 counts

AADT: 670.8

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		703	651
AM Peak	08:00 to 09:00	57	46
PM Peak	17:00 to 18:00	101	81

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 29.5 MPH
 50th Percentile Speed: 24.7 MPH
 10 MPH Pace Interval: 20.0 MPH to 30.0 MPH
 Average Speed: 23.0 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	304	340	367	341	348	223	200
% over limit	12.3	11.7	13.2	10.7	12.8	9.1	11.6
Avg Speeder	33.2	33.1	33.0	33.1	33.0	33.3	33.4
Avg Speed	14.3	13.8	14.2	11.5	14.2	13.3	16.5

Storm episodes

There were four significant storm episodes in this data set:

Date	Time	Number of false counts
10.8.2024	1130-1155	116
15.8.2024	1645-1800	529
	2140-2200	51
2.9.2024	1735-1755	134

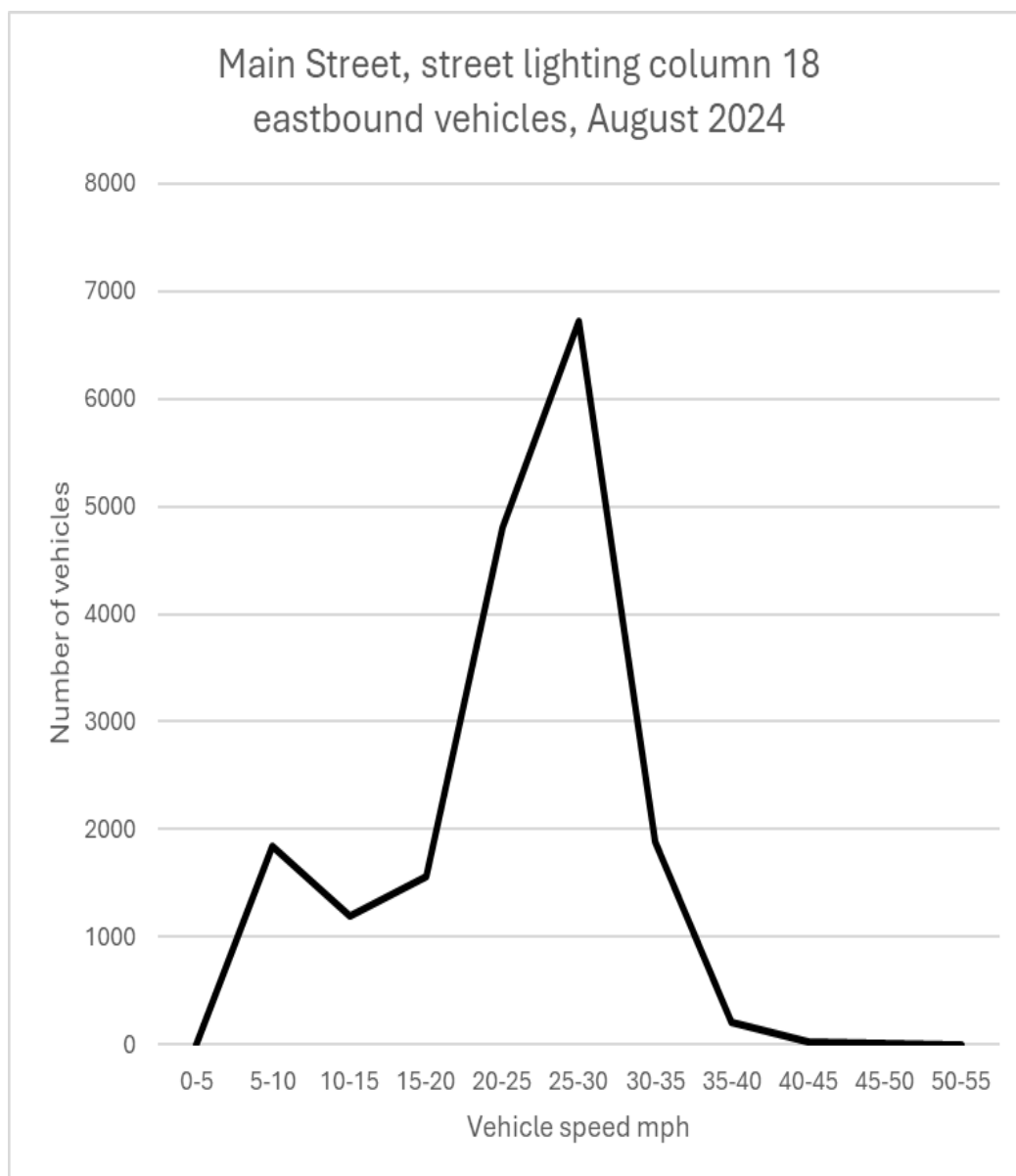
Chart data

Speed mph	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
No of vehicles	0	1850	1190	1565	4806	6717	1893	202	23

Speed mph	45-50	50-55	55-60	60-65	65-70	70-75	75-80
No of vehicles	4	1	0	0	0	0	0

Chart

See following page



i) Bosworth Road, street lighting column 6, northbound vehicles, 13 September – 9 October 2024

For Project: Bosworth Rd C6 Nbd

Location/Name: Incoming

Report Generated: 15/10/2024 10:18:45

Speed Intervals = 5 MPH

Time Intervals = Instant

Traffic Report from 13/09/2024 14:00:00 through 09/10/2024 08:59:59

85th Percentile Speed = 42.5 MPH

85th Percentile Vehicles = 21,522 counts

Max Speed = 70.0 MPH on 28/09/2024 22:55:00

Total Vehicles = 25,320 counts

AADT: 981.7

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		1,036	936
AM Peak	08:00 to 09:00	104	80
PM Peak	16:00 to 17:00	151	125

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 42.5 MPH
 50th Percentile Speed: 33.2 MPH
 10 MPH Pace Interval: 30.0 MPH to 40.0 MPH
 Average Speed: 29.9 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	2610	2757	2321	2123	2713	2028	1469
% over limit	52.1	56.0	61.7	77.5	80.1	71.1	55.7
Avg Speeder	38.6	38.3	38.3	38.3	38.8	38.1	39.1
Avg Speed	13.9	14.9	16.0	20.4	20.8	22.7	19.7

Storm episodes

There were nine significant storm episodes in this data set:

Date	Time	Number of false counts
21.9.24	1615-1725	110
22.9.24	100-1020	153
22.9.24	1525-1630	378
	1715-1940	496
29.9.24	1715-1735	149
	2115-2200	270
30.9.24	0200-0600	2223
8.10.24	0840-0900	135
	1630-2025	1022
Total		4936

In the chart below, the anomalously high counts for 5-10 and 10-15 mph are accounted for by the total above.

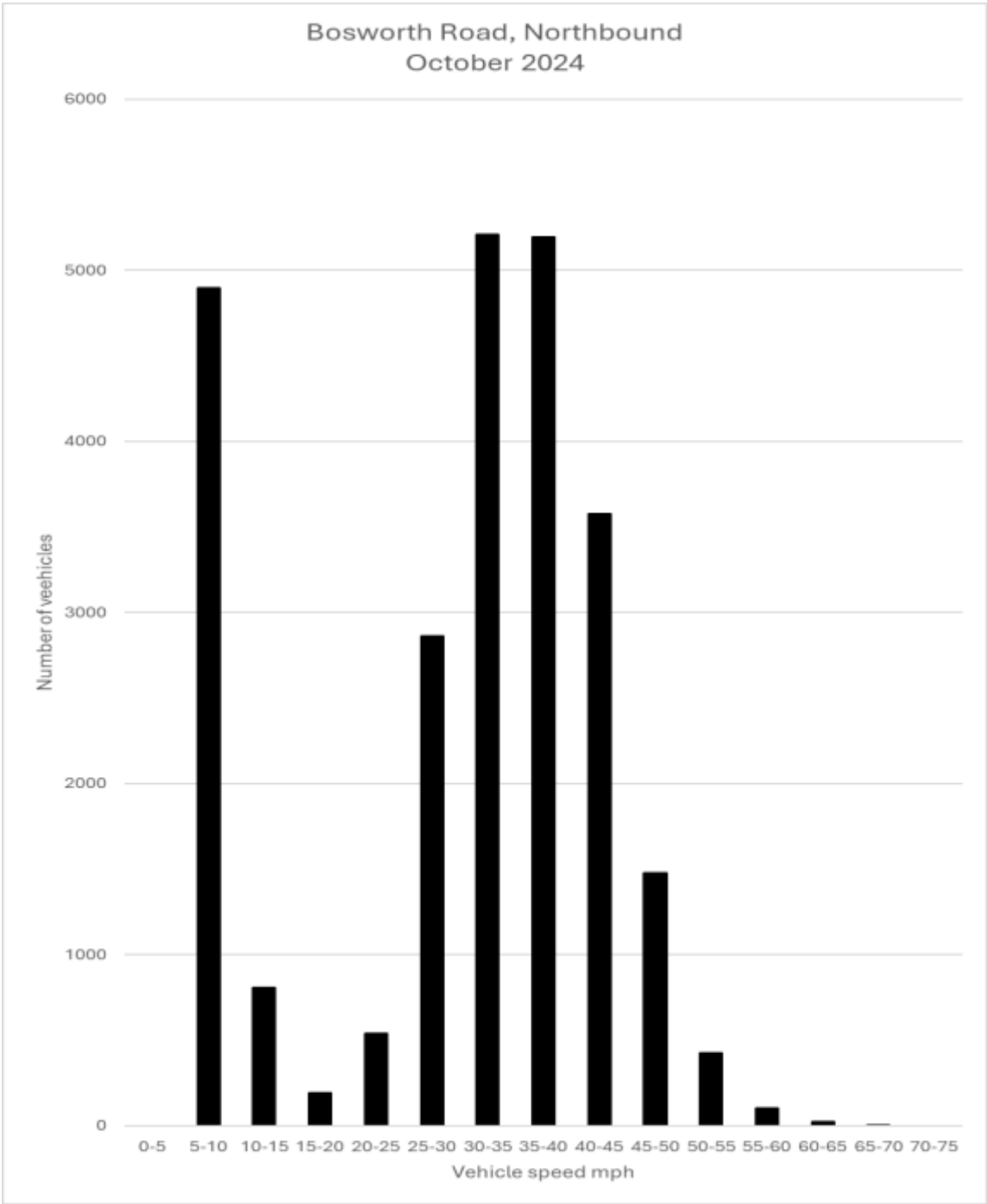
These false counts will have had a significant effect on the data in the summary above: see the analysis of selected data below. The vehicle numbers and speeds above 15mph recorded in the chart are not affected.

Chart data

Speed mph	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45
No of vehicles	0	4896	898	192	542	2861	5211	5197	3576

Speed mph	45-50	50-55	55-60	60-65	65-70	70-75	75-80
No of vehicles	1477	426	106	26	2	0	0

Chart



j. Selected data: Bosworth Road, street lighting column 6, northbound vehicles, 13-28 September 2024

This data selection omits the false counts on and after September 29th.

For Project: 2024.10.15 Bosworth Rd C6 Nbd
Location/Name: Incoming
Report Generated: 15/10/2024 15:48:56
Speed Intervals = 5 MPH
Time Intervals = Instant

Traffic report from 13/09/2024 14:00:00 through 28/09/2024 23:59:59

85th Percentile Speed = 43.3 MPH
 85th Percentile Vehicles = 11,461 counts
 Max Speed = 70.0 MPH on 28/09/2024 22:55:00
 Total Vehicles =13,483 counts
 AADT: 874.6

Volumes - weekly vehicle counts

	Time	5 Day	7 Day
Average Daily		949	856
AM Peak	08:00 to 09:00	105	79
PM Peak	16:00 to 17:00	144	119

Speed

Speed Limit: 30 MPH
 85th Percentile Speed: 43.3 MPH
 50th Percentile Speed: 34.7 MPH
 10 MPH Pace Interval: 30.0 MPH to 40.0 MPH
 Average Speed: 32.9 MPH

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Count over limit	1298	1457	1445	1386	1941	1472	706
% over limit	80.2	80.1	54.0	77.2	81.6	70.2	64.4
Avg Speeder	38.5	38.5	38.4	38.4	39.0	38.1	39.3
Avg Speed	21.4	20.6	14.2	20.7	21.2	22.8	22.6

C J Peat.
 5 November 2024