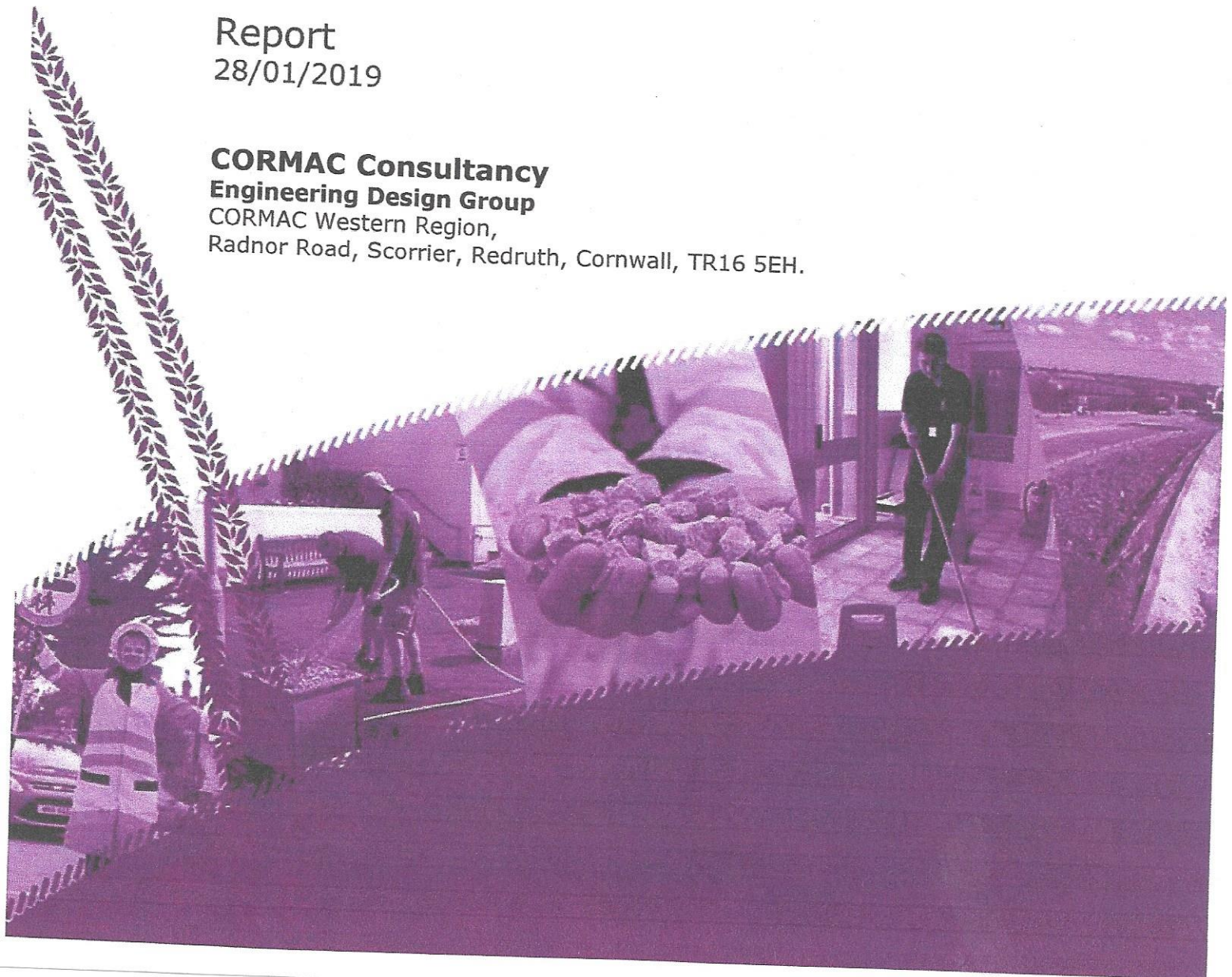


RadarClass

C0274 Boyton
January 2019

Report
28/01/2019

CORMAC Consultancy
Engineering Design Group
CORMAC Western Region,
Radnor Road, Scorrier, Redruth, Cornwall, TR16 5EH.



RadarClass

**C0274 Boyton
January 2019**

Northbound / Southbound

Route No	Column No	Neighbourhood Service Area	RadarClass Unit ID	Ordnance Survey Grid Reference
C0274	Post	East	Unit 7	231813 / 091655

Date of Deployment	End of Operation	Total Period of Operation
17/01/2019	24/01/2019	8 days

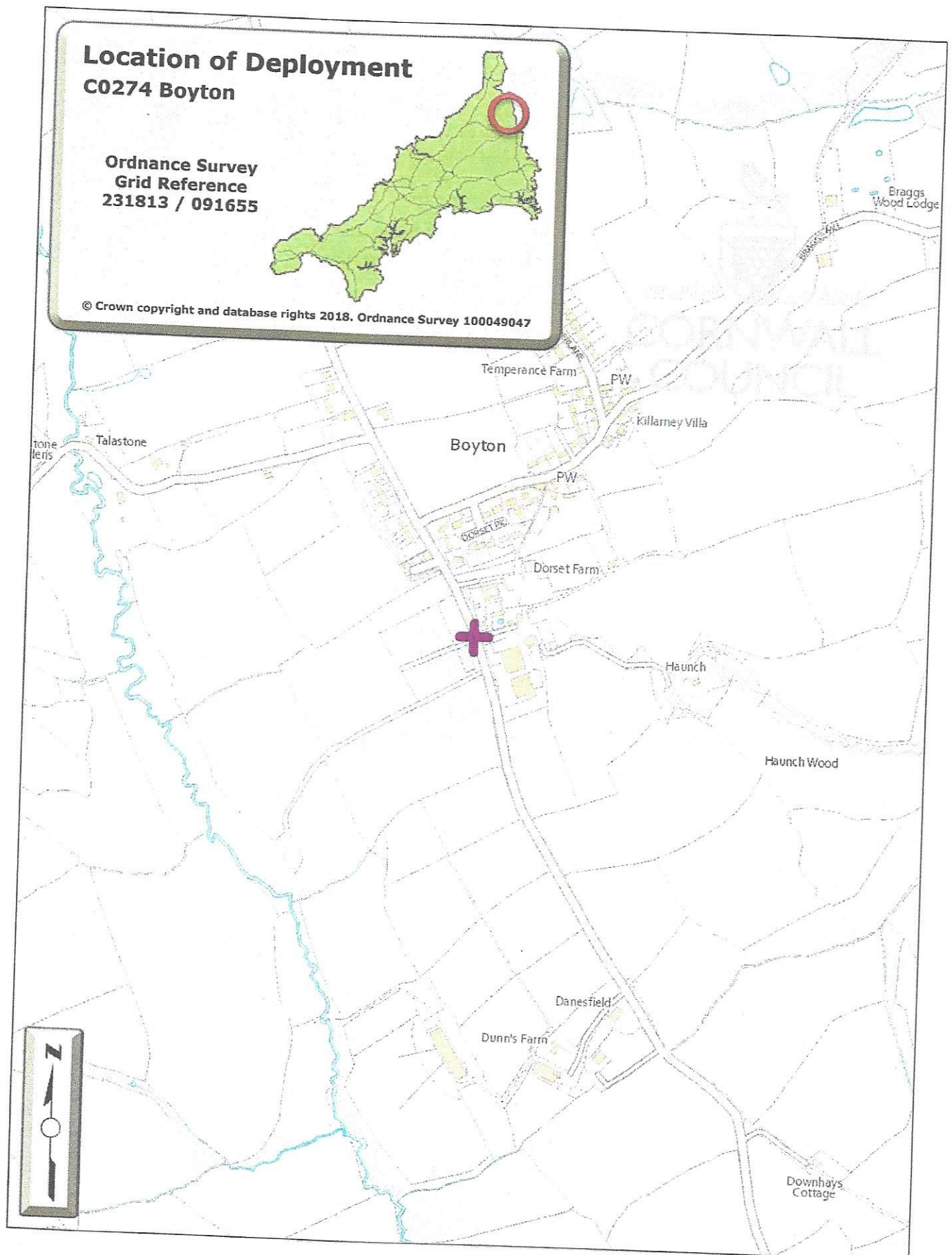
Summary Table

 Speed Limit	All Observations		Weekdays		Weekends	
	Northbound	Southbound	Northbound	Southbound	Northbound	Southbound
Number of Observations:	1,609	1,768	1,274	1,431	335	337
Mean Speed (mph):	33.7	33.9	33.6	33.4	33.8	36.0
85%ile Speed (mph):	40	42	40	42	41	44
Standard Deviation:	7.1	9.3	6.9	9.5	7.6	7.6
% ≤  :	29.2%	28.5%	29.5%	30.3%	28.1%	20.5%
% 31 mph to 40 mph:	57.6%	49.0%	58.2%	47.6%	55.2%	54.9%
% >40 mph:	13.2%	22.6%	12.3%	22.1%	16.7%	24.6%

Comments:

Data Submitted by:	Ken Dunn	Data Processed by:	Jim Rowe
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1. Location Map.



2. Glossary of Terms & Abbreviations.

RadarClass is a portable radar device that detects and records the speed of passing vehicles. The unit is housed in an unobtrusive rugged black anti-vandal housing which can be mounted on any item of roadside furniture without looking conspicuous.

The principal role of the unit is to detect and count passing vehicles and log the date, time and speed at which they passed. Data collected can be used to determine the volume of traffic flow on the road on which the unit has been deployed.



Nº of Observations:

The number of readings recorded by the radar. This does not correspond to an exact count of vehicles passing the sign, since vehicles may pass the sign in a tightly packed group (or 'platoon'); the radar will only record data for the 'lead vehicle' that is determining the speed for the remainder of the platoon.

Mean Speed:

The arithmetic average of all the speed values recorded.

85%ile Speed:

The speed at or below which 85% of the vehicles recorded were travelling.

Standard Deviation:

A measure of how widely speeds are dispersed from the Mean Speed.

% ≤ 30 :

The percentage of vehicles travelling at speeds of 30 mph or below (i.e. the percentage of vehicles travelling at or within the 30 mph speed limit).

% 31 mph to 40 mph:

The percentage of vehicles travelling at speeds of between 31 mph and 40mph.

% >40 mph:

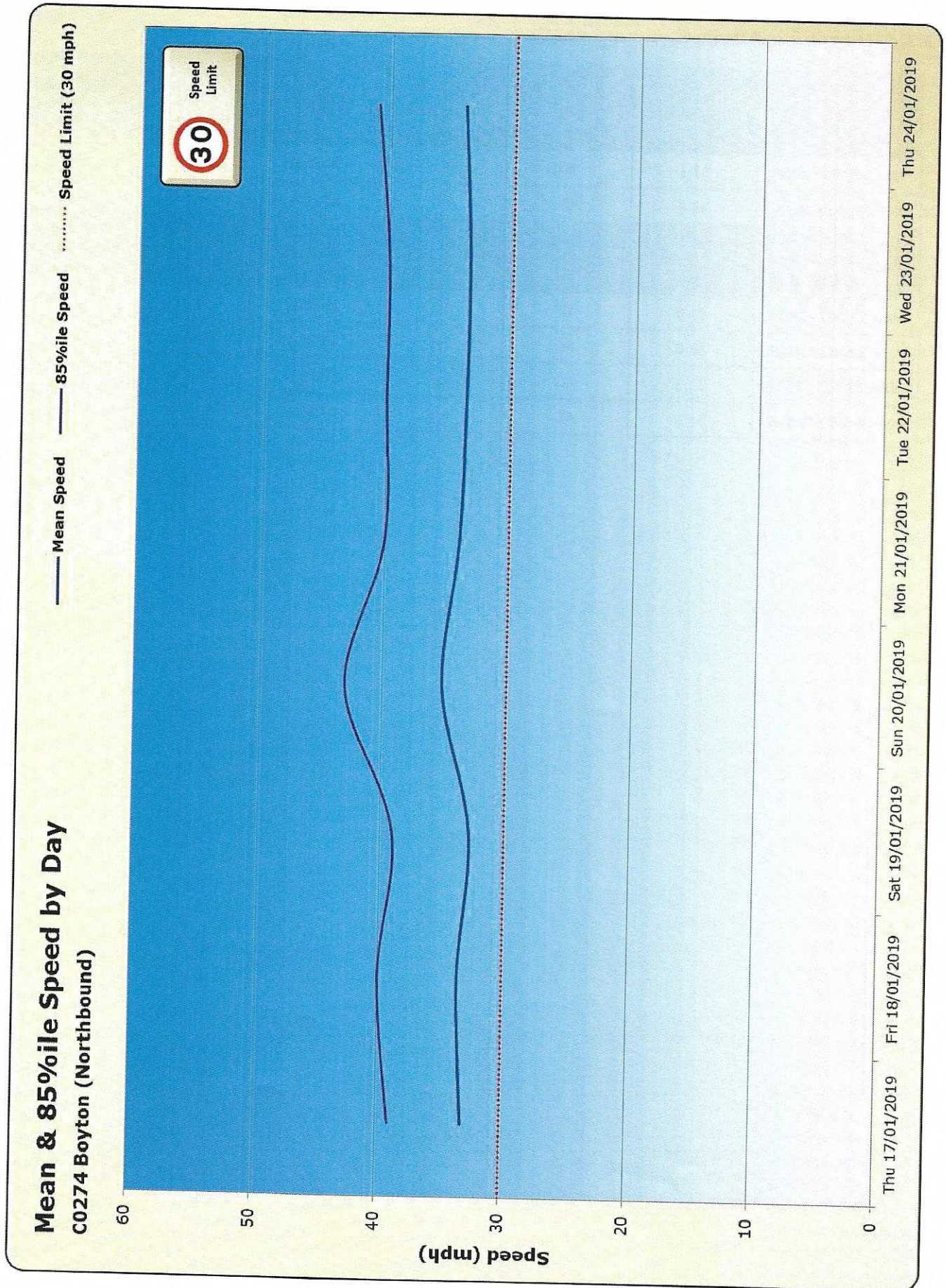
The percentage of vehicles travelling at speeds greater than 40 mph (i.e. the percentage of vehicles travelling at speeds in excess of 10mph above the 30 mph speed limit).

3. Northbound Detailed Statistics.

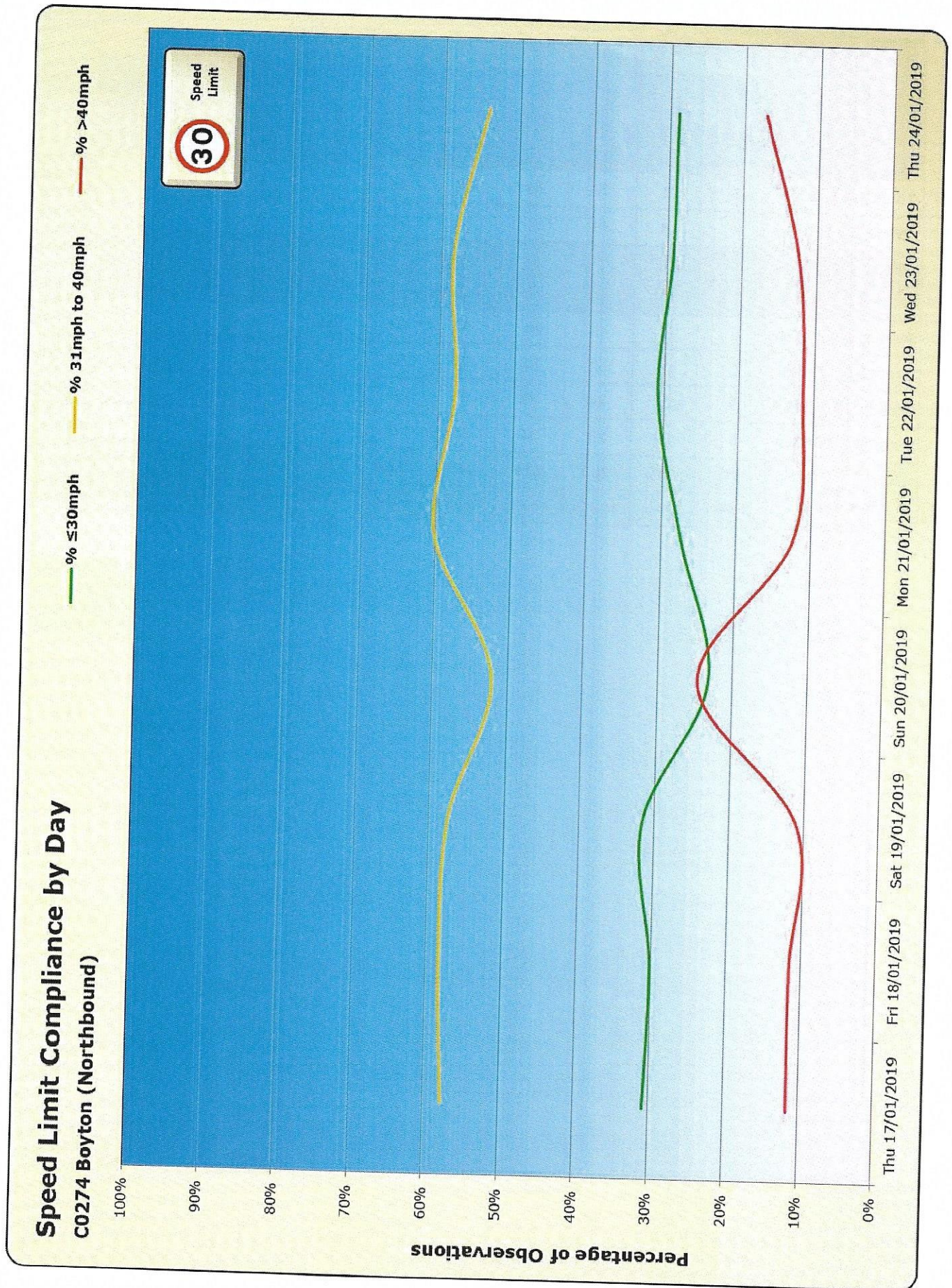
3.1.1. Northbound Daily Summary Table.

Date	Mean Speed	85 th ile Speed	Standard Deviation	No ≤ 	% 31 mph to 40 mph	% >40 mph
Thu 17/01/2019	33.1	39	8.1	30.8%	57.7%	11.5%
Fri 18/01/2019	33.6	40	6.8	30.2%	58.3%	11.5%
Sat 19/01/2019	32.8	39	7.5	31.6%	57.5%	10.9%
Sun 20/01/2019	35.2	43	7.4	23.2%	52.1%	24.6%
Mon 21/01/2019	34.0	40	6.7	27.3%	60.2%	12.4%
Tue 22/01/2019	33.6	40	6.5	30.8%	57.8%	11.4%
Wed 23/01/2019	33.5	40	6.7	29.2%	58.4%	12.3%
Thu 24/01/2019	34.0	41	6.8	28.8%	54.1%	17.1%

3.1.2. Northbound Mean Speed & 85%ile Speeds by Day Chart.



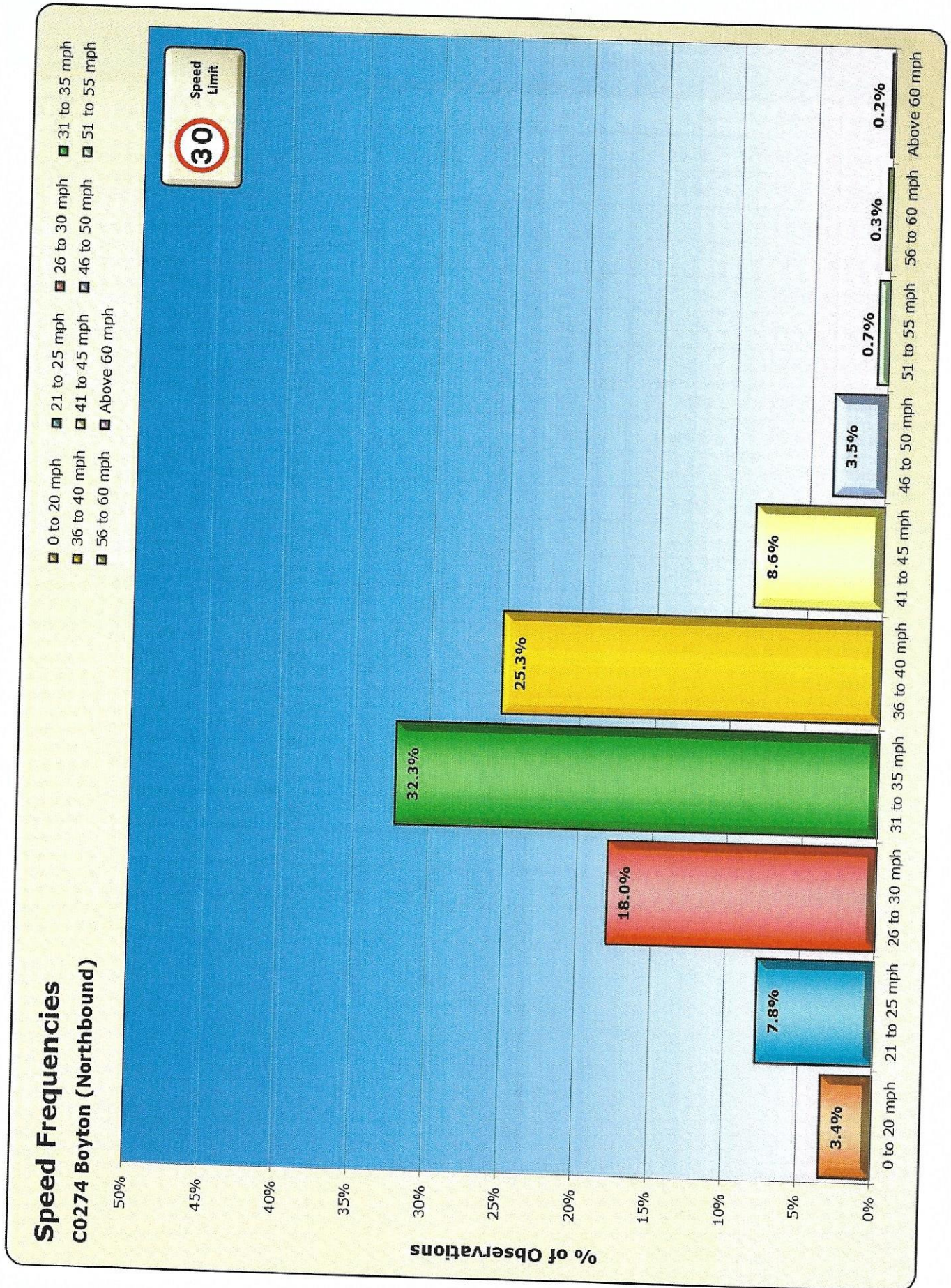
3.1.3. Northbound Speed Limit Compliance by Day Chart.



3.2.1. Northbound Speed Frequencies by Day Table.

Date	No ≤ 30			No > 30							Total
	0 to 20 mph	21 to 25 mph	26 to 30 mph	31 to 35 mph	36 to 40 mph	41 to 45 mph	46 to 50 mph	51 to 55 mph	56 to 60 mph	Above 60 mph	
Thu 17/01/2019	8	21	27	59	46	11	7	1	0	2	182
Fri 18/01/2019	9	18	49	77	70	23	3	1	2	0	252
Sat 19/01/2019	10	16	35	63	48	13	6	1	1	0	193
Sun 20/01/2019	3	12	18	44	30	24	9	1	0	1	142
Mon 21/01/2019	5	22	41	81	69	16	12	2	1	0	249
Tue 22/01/2019	5	16	52	82	55	15	11	1	0	0	237
Wed 23/01/2019	9	18	44	79	63	21	6	2	1	0	243
Thu 24/01/2019	6	3	23	34	26	15	2	2	0	0	111
Total % of Total	55	126	289	519	407	138	56	11	5	3	1,609
	3.4%	7.8%	18.0%	32.3%	25.3%	8.6%	3.5%	0.7%	0.3%	0.2%	100.0%

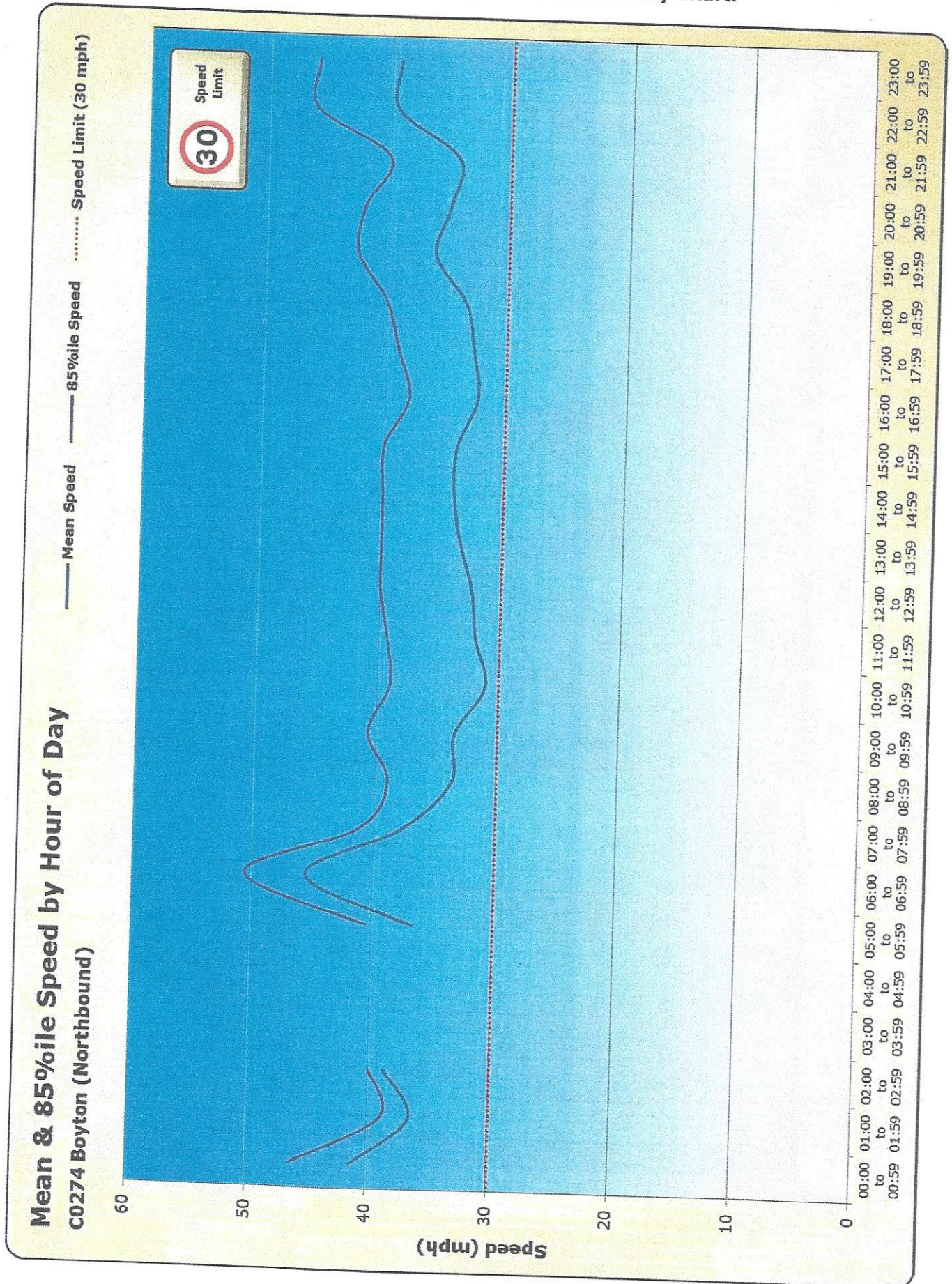
3.2.2. Northbound Speed Frequencies Chart.



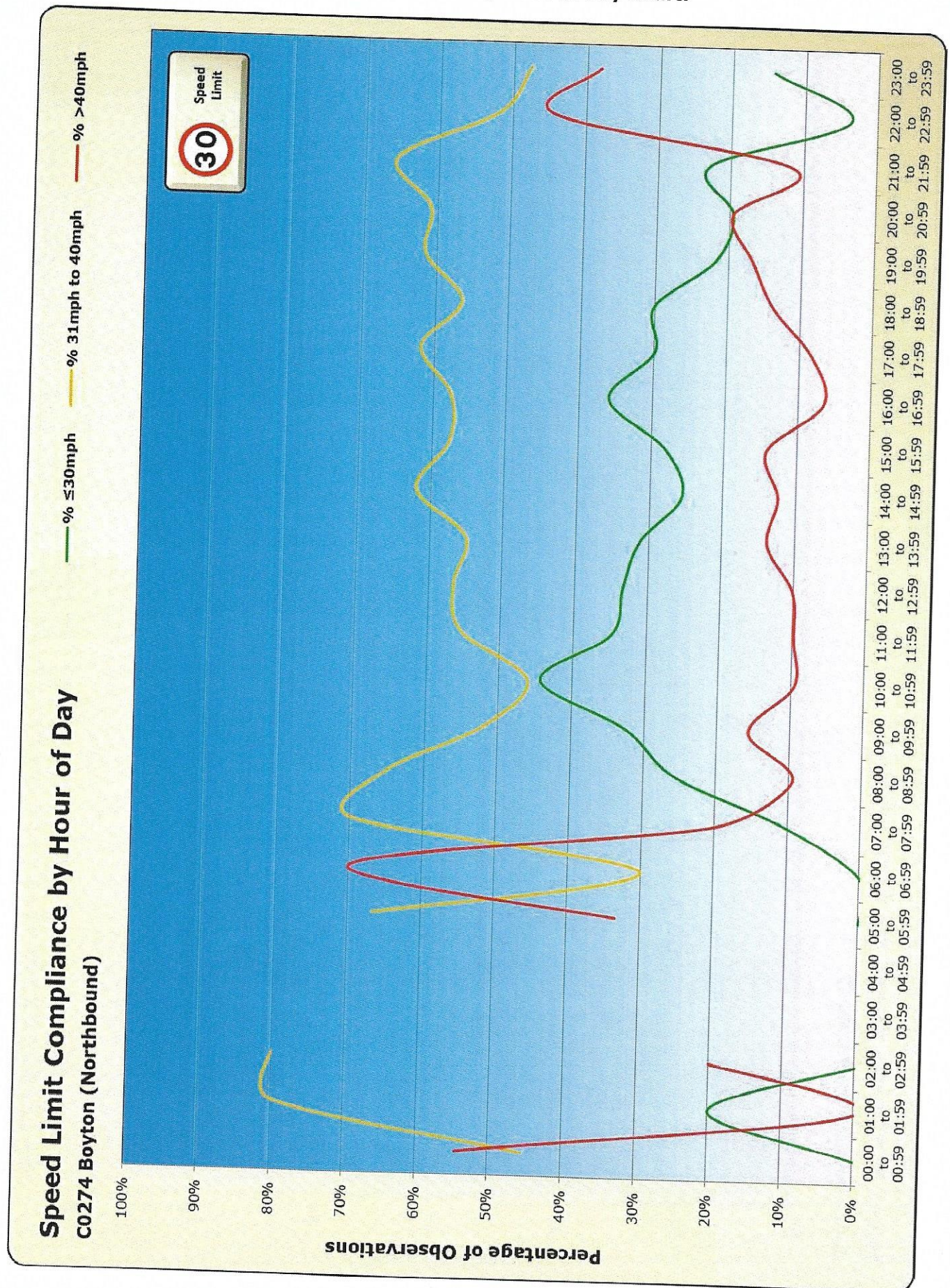
3.3.1. Northbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85 th ile Speed	Standard Deviation	No ≤ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	41.5	47	6.4	0.0%	45.5%	54.5%
01:00 to 01:59	36.6	39	3.9	20.0%	80.0%	0.0%
02:00 to 02:59	38.8	40	2.4	0.0%	80.0%	20.0%
03:00 to 03:59	-	-	-	-	-	-
04:00 to 04:59	-	-	-	-	-	-
05:00 to 05:59	36.7	41	5.5	0.0%	66.7%	33.3%
06:00 to 06:59	45.6	51	5.3	0.0%	30.0%	70.0%
07:00 to 07:59	37.8	41	5.1	10.0%	70.0%	20.0%
08:00 to 08:59	33.7	39	5.5	25.5%	65.1%	9.4%
09:00 to 09:59	33.6	41	6.7	32.5%	51.8%	15.7%
10:00 to 10:59	31.1	39	6.9	44.3%	46.1%	9.6%
11:00 to 11:59	32.0	39	7.2	34.8%	55.4%	9.8%
12:00 to 12:59	32.4	40	7.0	33.3%	56.6%	10.1%
13:00 to 13:59	33.5	40	6.9	31.2%	55.1%	13.8%
14:00 to 14:59	34.1	40	6.6	25.5%	62.0%	12.4%
15:00 to 15:59	34.0	40	6.8	28.2%	57.7%	14.1%
16:00 to 16:59	32.4	38	5.5	36.0%	57.6%	6.5%
17:00 to 17:59	32.8	39	7.5	29.8%	61.9%	8.3%
18:00 to 18:59	33.5	40	7.1	30.0%	56.4%	13.6%
19:00 to 19:59	36.1	42	8.0	21.8%	61.5%	16.7%
20:00 to 20:59	35.0	42	7.6	19.5%	61.0%	19.5%
21:00 to 21:59	34.3	40	6.9	22.9%	65.7%	11.4%
22:00 to 22:59	39.4	46	6.8	3.7%	51.9%	44.4%
23:00 to 23:59	39.3	46	8.4	14.3%	47.6%	38.1%

3.3.2. Northbound Mean Speed & 85%ile Speed by Hour of Day Chart.



3.3.3. Northbound Speed Limit Compliance by Hour of Day Chart.

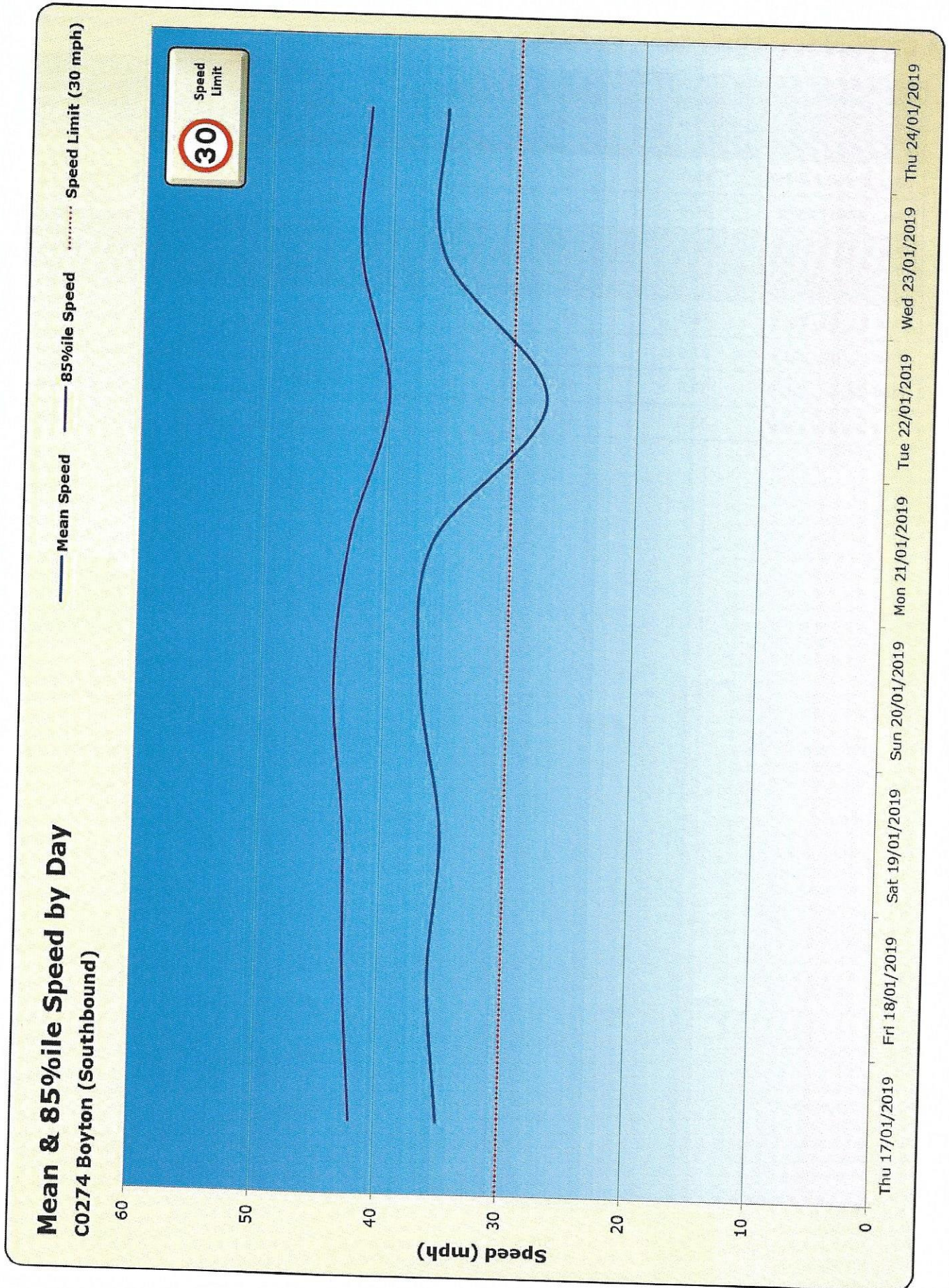


4. Southbound Detailed Statistics.

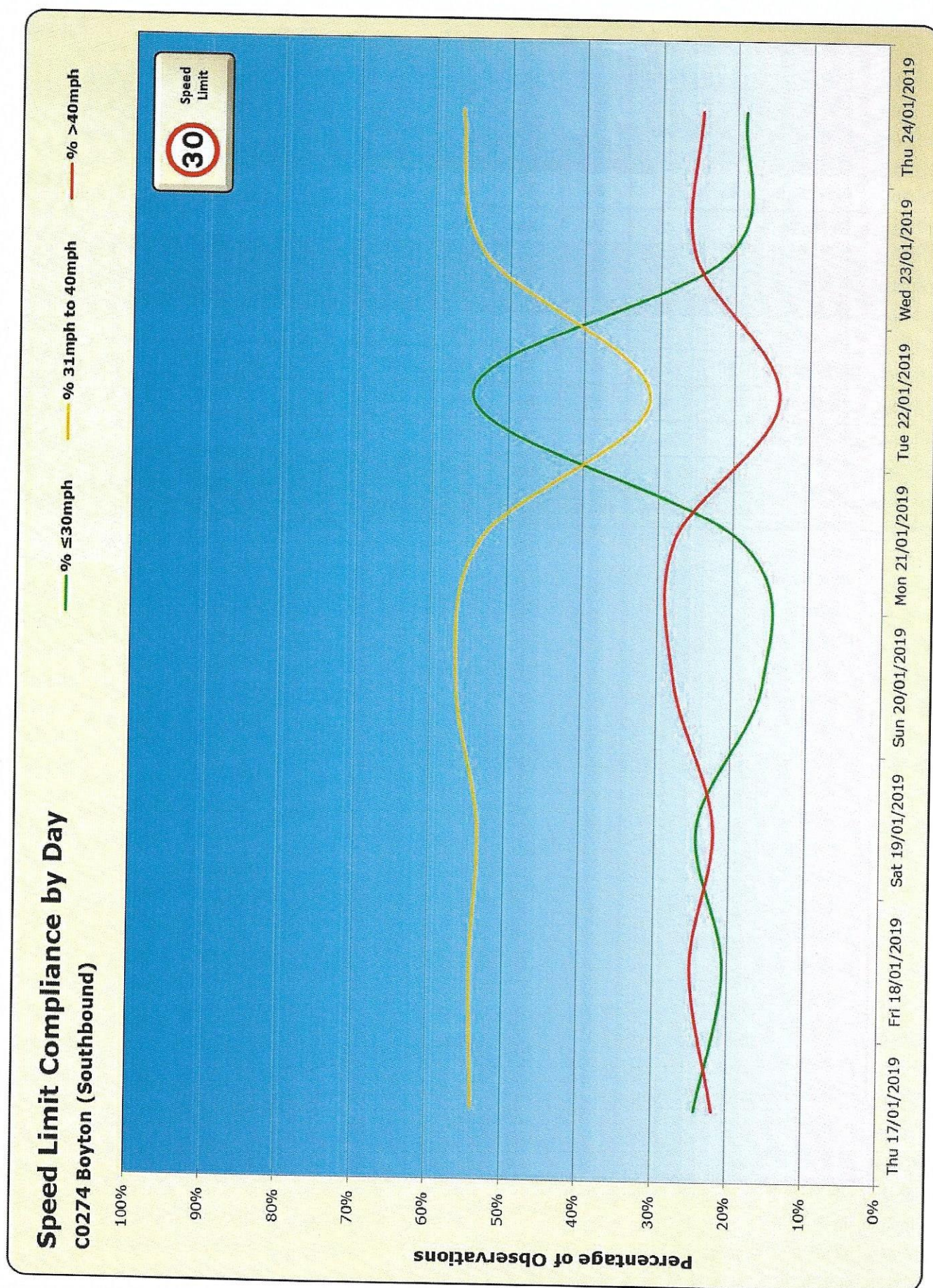
4.1.1. Southbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	No ≤ 	% 31 mph to 40 mph	% >40 mph
Thu 17/01/2019	35.0	42	7.3	24.2%	53.9%	21.9%
Fri 18/01/2019	35.9	43	7.2	20.7%	54.3%	25.0%
Sat 19/01/2019	35.2	43	7.3	24.3%	53.5%	22.2%
Sun 20/01/2019	37.0	44	7.8	15.8%	56.6%	27.6%
Mon 21/01/2019	36.3	43	7.5	18.9%	53.4%	27.7%
Tue 22/01/2019	27.3	40	11.4	54.8%	31.2%	14.0%
Wed 23/01/2019	35.9	43	8.1	21.2%	53.4%	25.4%
Thu 24/01/2019	35.8	42	6.2	18.8%	56.5%	24.6%

4.1.2. Southbound Mean Speed & 85%ile Speed by Day Chart.



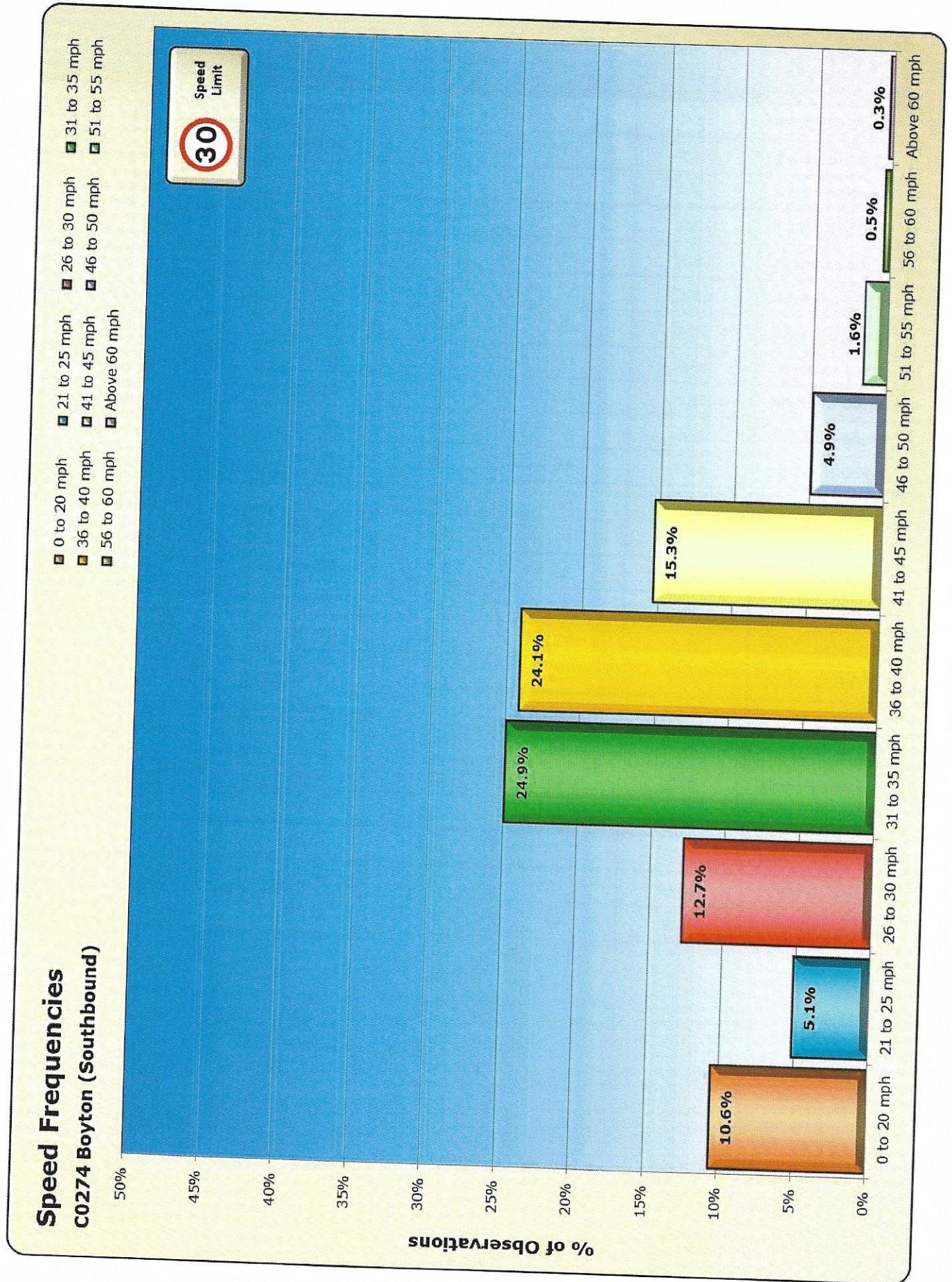
4.1.3. Southbound Speed Limit Compliance by Day Chart.



4.2.1. Southbound Speed Frequencies by Day Table.

Date	No ≤ 30			No > 30							Total
	0 to 20 mph	21 to 25 mph	26 to 30 mph	31 to 35 mph	36 to 40 mph	41 to 45 mph	46 to 50 mph	51 to 55 mph	56 to 60 mph	Above 60 mph	
Thu 17/01/2019	4	7	20	32	37	21	6	1	0	0	128
Fri 18/01/2019	4	15	34	73	66	50	9	1	3	1	256
Sat 19/01/2019	5	10	30	57	42	26	12	2	1	0	185
Sun 20/01/2019	5	2	17	40	46	22	12	5	2	1	152
Mon 21/01/2019	4	14	27	63	64	46	11	7	0	2	238
Tue 22/01/2019	157	20	46	71	56	37	16	4	0	0	407
Wed 23/01/2019	7	16	33	64	77	42	15	7	2	1	264
Thu 24/01/2019	1	7	18	40	38	27	6	1	0	0	138
Total % of Total	187	91	225	440	426	271	87	28	8	5	1,768
	10.6%	5.1%	12.7%	24.9%	24.1%	15.3%	4.9%	1.6%	0.5%	0.3%	100.0%

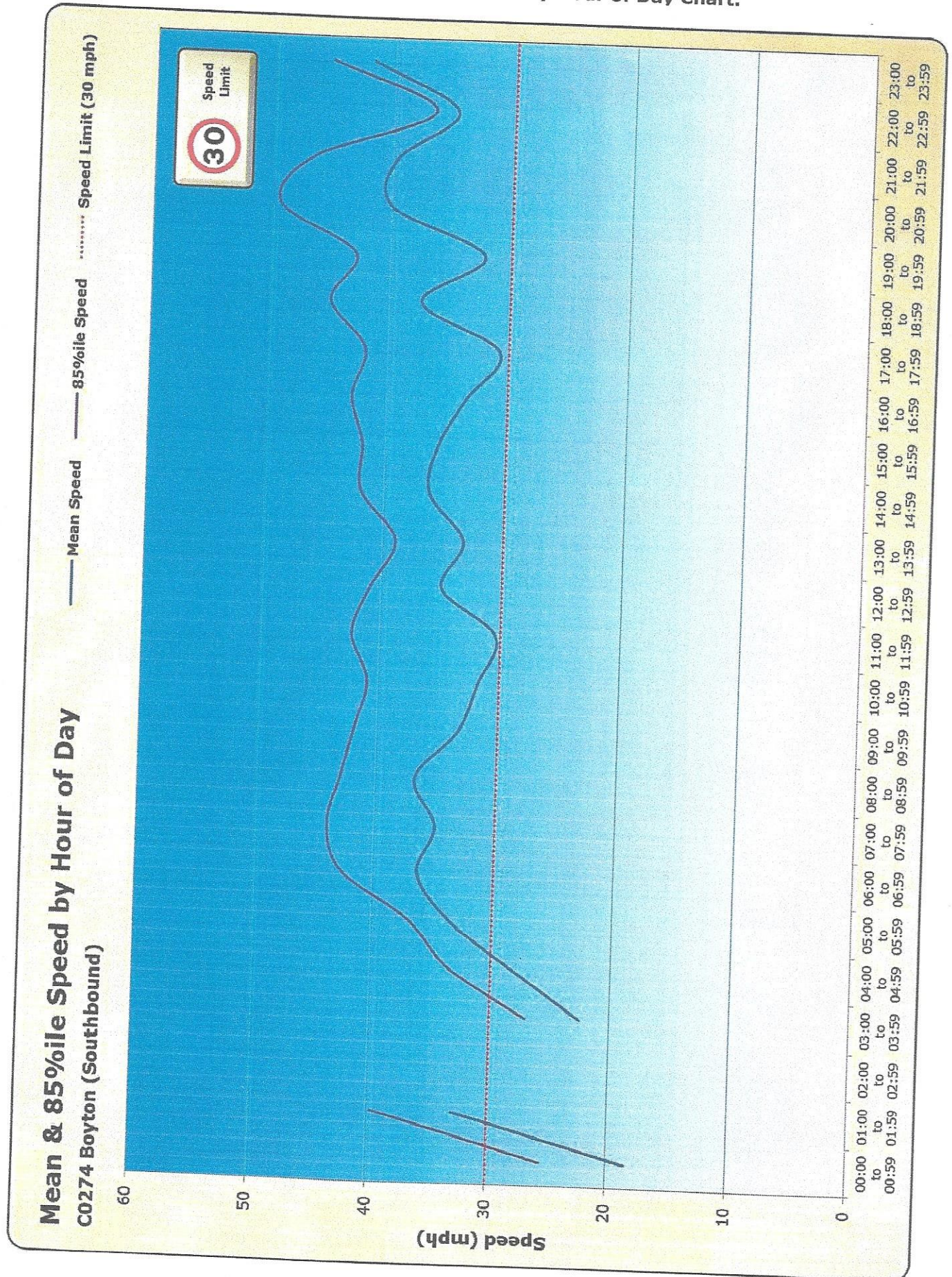
4.2.2. Southbound Speed Frequencies Chart.



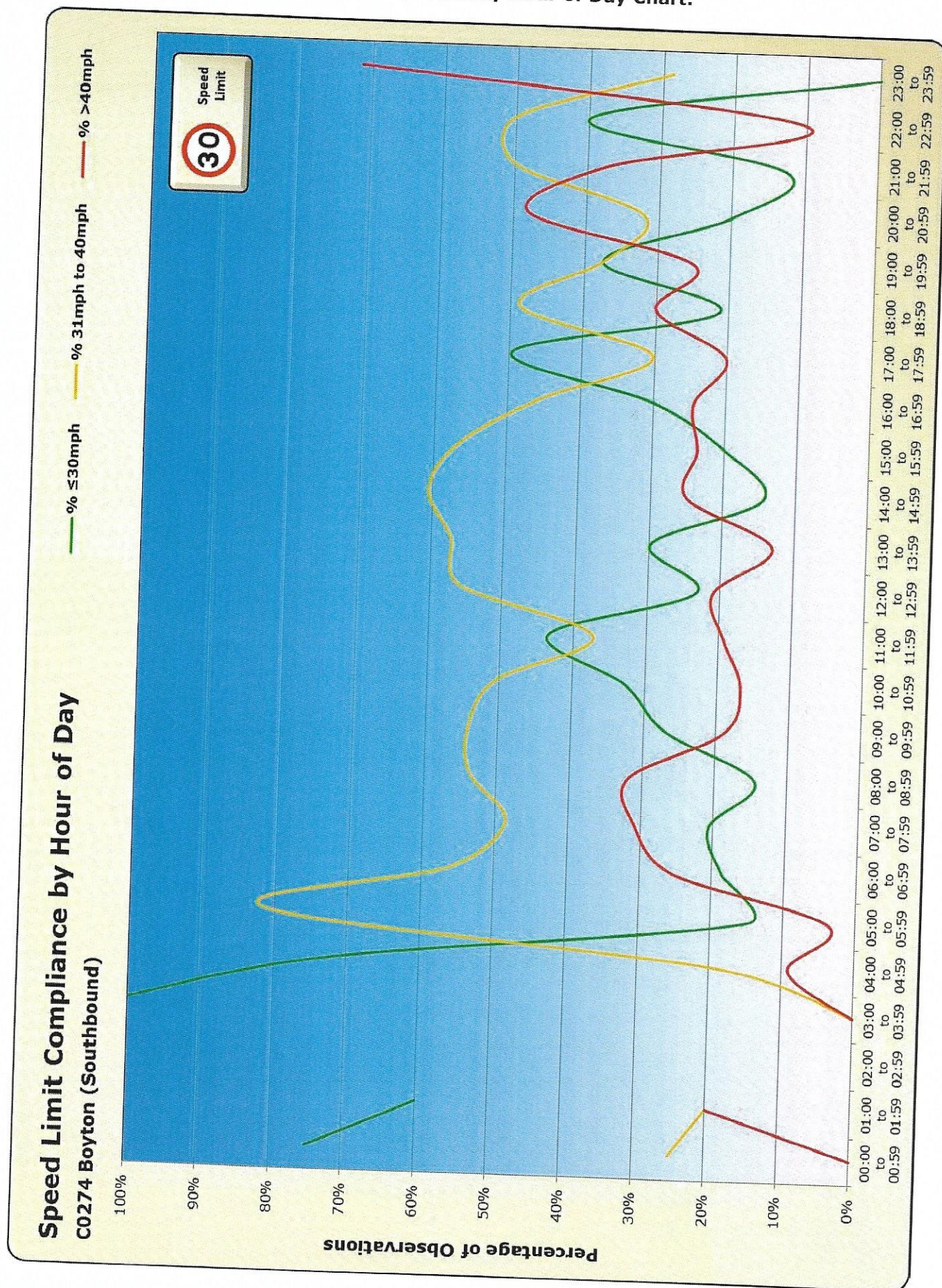
4.3.1. Southbound Hour of Day Summary Table.

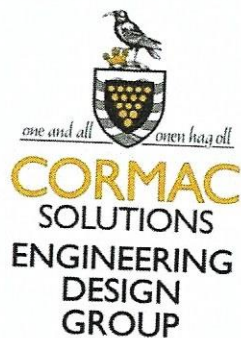
Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	No  ≤	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	18.5	26	11.1	75.0%	25.0%	0.0%
01:00 to 01:59	33.0	40	7.4	60.0%	20.0%	20.0%
02:00 to 02:59	-	-	-	-	-	-
03:00 to 03:59	22.5	27	9.2	100.0%	0.0%	0.0%
04:00 to 04:59	28.2	34	12.0	72.7%	18.2%	9.1%
05:00 to 05:59	33.6	37	6.6	14.8%	81.5%	3.7%
06:00 to 06:59	36.4	43	6.2	18.6%	55.8%	25.6%
07:00 to 07:59	35.0	44	9.9	20.6%	48.5%	30.9%
08:00 to 08:59	36.8	43	7.0	14.5%	53.8%	31.8%
09:00 to 09:59	33.3	42	8.9	27.0%	54.1%	18.9%
10:00 to 10:59	31.8	41	9.9	32.8%	50.4%	16.8%
11:00 to 11:59	30.4	42	11.9	43.4%	37.2%	19.3%
12:00 to 12:59	35.0	41	6.8	23.3%	55.8%	20.9%
13:00 to 13:59	33.3	39	6.9	29.8%	57.3%	13.0%
14:00 to 14:59	36.3	42	5.6	14.5%	60.5%	25.0%
15:00 to 15:59	35.7	42	7.4	19.7%	56.6%	23.7%
16:00 to 16:59	33.4	43	9.7	29.9%	45.7%	24.4%
17:00 to 17:59	30.8	42	10.8	49.7%	30.2%	20.1%
18:00 to 18:59	37.4	45	8.4	21.3%	48.8%	30.0%
19:00 to 19:59	32.2	43	12.4	37.5%	37.5%	25.0%
20:00 to 20:59	40.1	49	8.6	20.0%	32.0%	48.0%
21:00 to 21:59	39.8	47	12.2	12.5%	50.0%	37.5%
22:00 to 22:59	34.8	37	8.0	40.0%	50.0%	10.0%
23:00 to 23:59	41.9	45	4.3	0.0%	28.6%	71.4%

4.3.2. Southbound Mean Speed & 85%ile Speed by Hour of Day Chart.

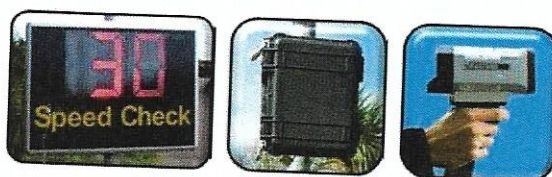


4.3.3. Southbound Speed Limit Compliance by Hour of Day Chart.



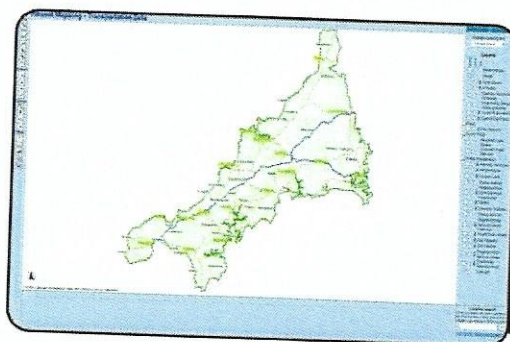


Produced by
Engineering Design Group
Cormac Solutions Ltd



Speed Analysis

RadarClass is part of the
Engineering Design Group
Speed Analysis Programme



View the SpeedVISOR & RadarClass layer on Intranet mapping at
<http://cornwallcouncilintranet.cc.cornwallonline.net/default.aspx?page=1480>
(Cormac and Cornwall Council employees only)

View the locations of all SpeedVISOR and RadarClass deployments since 2002 on an interactive map of Cornwall
with an option to view and download speed analysis statistics reports.

To request a deployment and/or obtain a quote for
SpeedVISOR, RadarClass or Hand-held Radar deployment
please contact

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