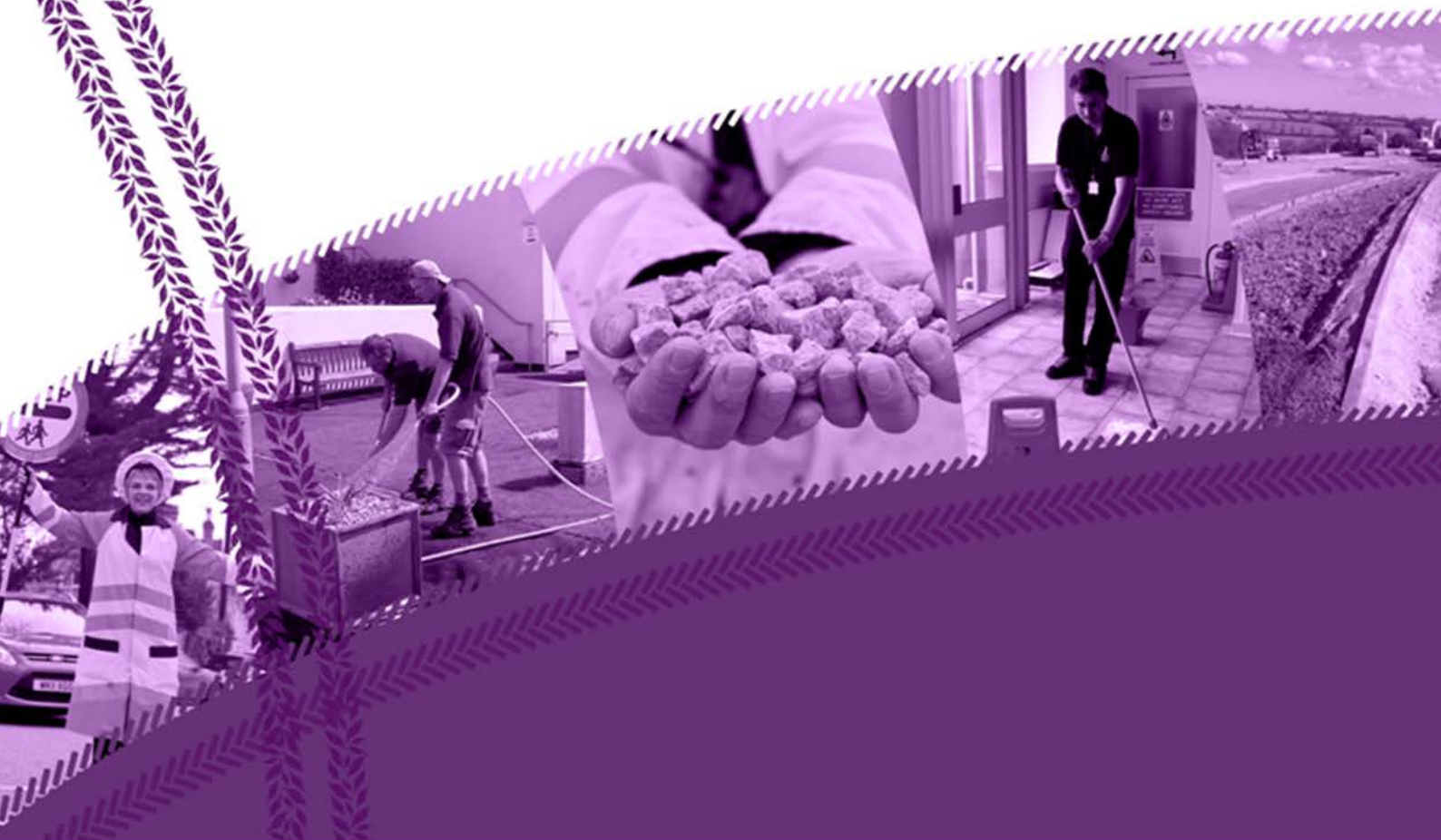


RadarClass

C0274 Boyton School, Boyton School
January 2017
Report
27/01/2017

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



RadarClass



C0274 Boyton School, Boyton
January 2017

Northbound / Southbound

Route N ^o	Column N ^o	Neighbourhood Service Area	RadarClass Unit ID	Ordnance Survey Grid Reference
C0274	Post	East	Unit 3	231482 / 092427

Date of Deployment	End of Operation	Total Period of Operation
11/01/2017	18/01/2017	8 days

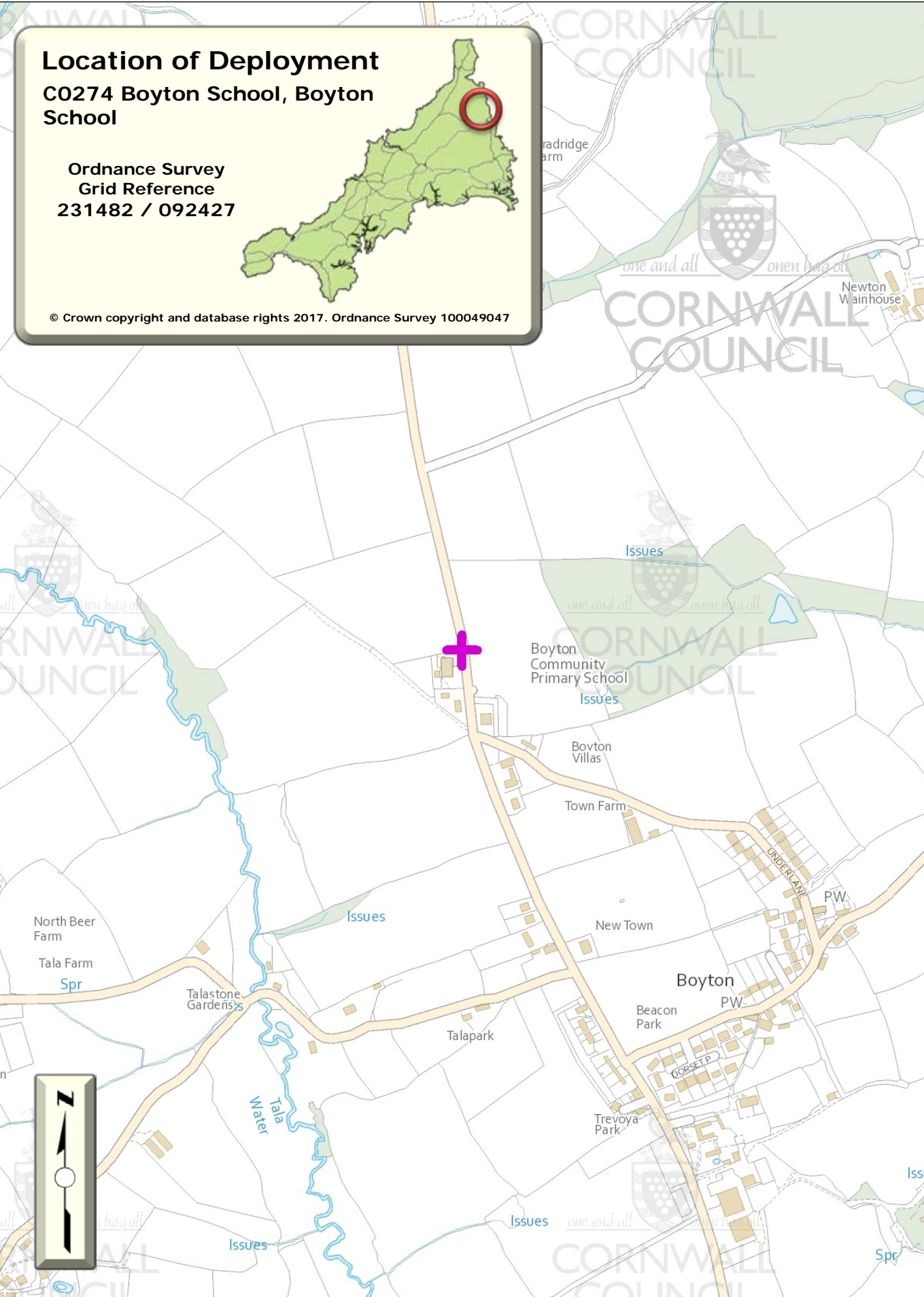
Summary Table

 Speed Limit	All Observations		Weekdays		Weekends	
	Northbound	Southbound	Northbound	Southbound	Northbound	Southbound
Number of Observations:	878	918	672	702	206	216
Mean Speed (mph):	26.3	25.1	25.6	24.5	28.3	27.2
85%ile Speed (mph):	33	32	33	32	34	33
Standard Deviation:	6.9	7.1	7.1	7.3	5.8	6.0
% ≤  :	73.6%	79.2%	76.0%	80.9%	65.5%	73.6%
% 31 mph to 40 mph:	24.6%	19.2%	22.0%	17.5%	33.0%	24.5%
% >40 mph:	1.8%	1.6%	1.9%	1.6%	1.5%	1.9%

Comments:	
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Data Submitted by:	Paul Taylor	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.



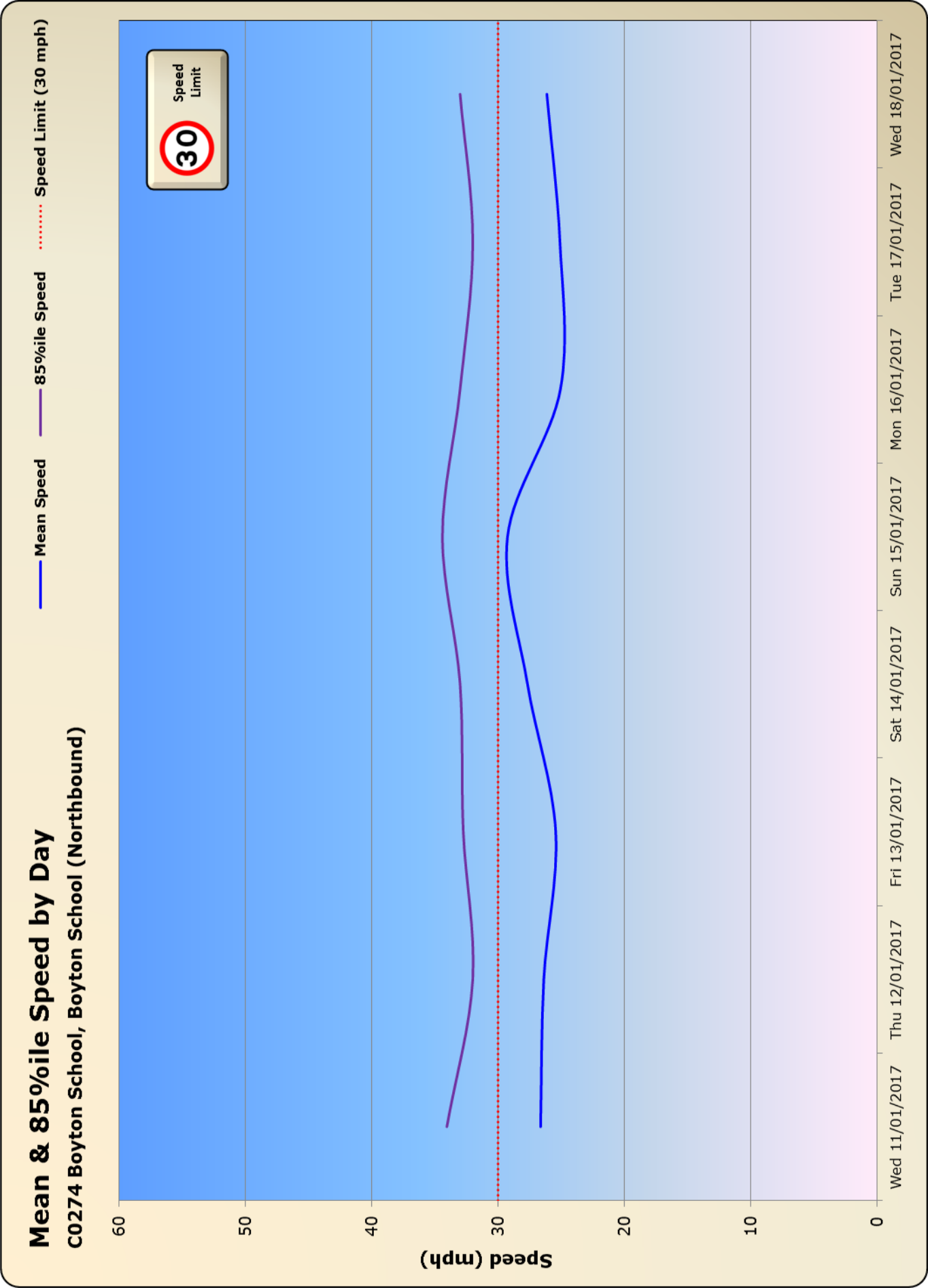
Nº of Observations:	The number of readings recorded by the radar. This does not correspond to an exact count of vehicles passing the sign, since vehicles may pass the sign in a tightly packed group (or 'platoon'); the radar will only record data for the 'lead vehicle' that is determining the speed for 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.
% ≤  :	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.

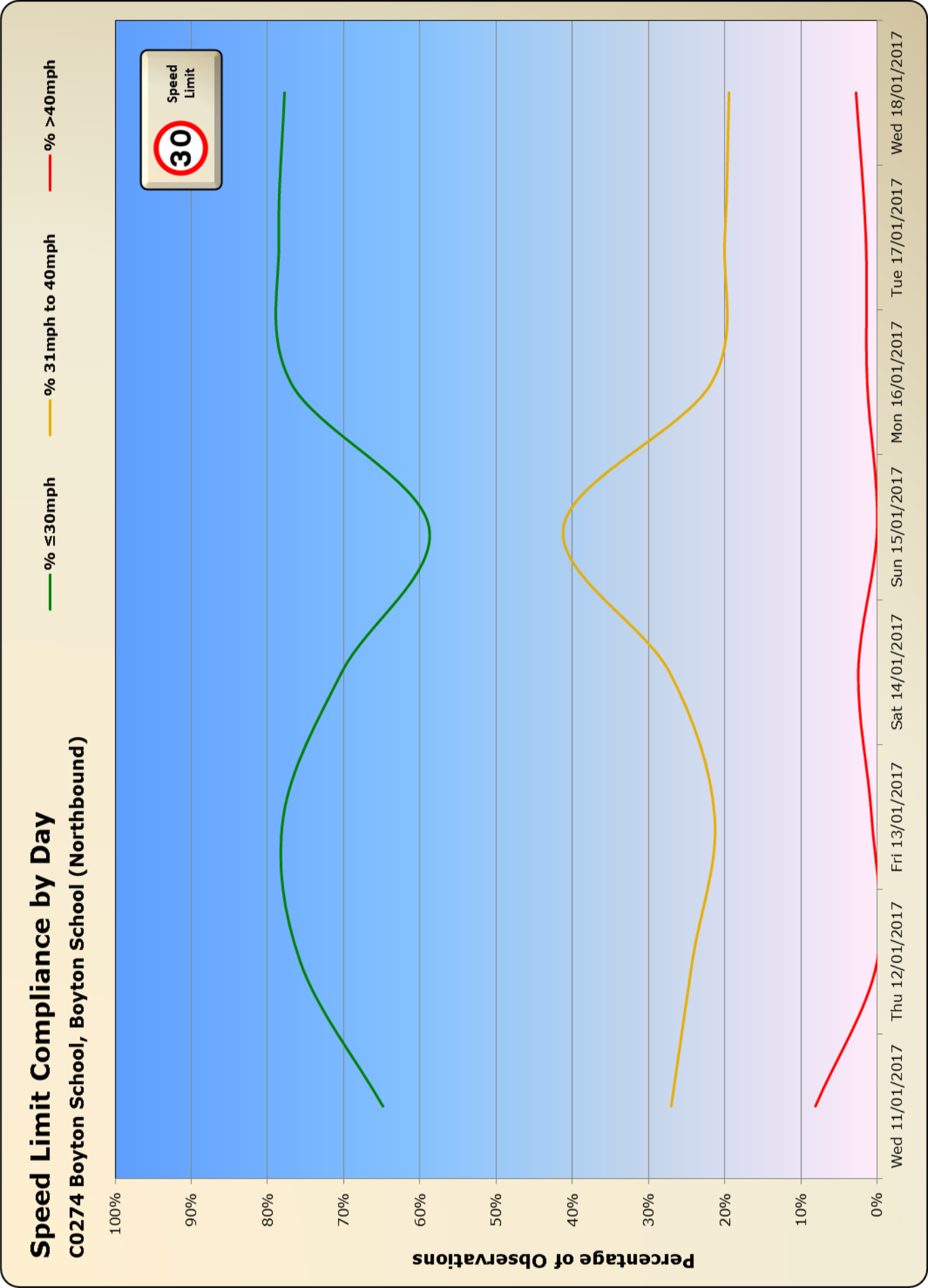
3.1.1. Northbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
Wed 11/01/2017	26.6	34	9.0	64.9%	27.0%	8.1%
Thu 12/01/2017	26.4	32	5.8	75.7%	24.3%	0.0%
Fri 13/01/2017	25.4	33	6.4	77.9%	21.3%	0.7%
Sat 14/01/2017	27.7	33	6.1	70.2%	27.3%	2.5%
Sun 15/01/2017	29.2	34	5.3	58.8%	41.2%	0.0%
Mon 16/01/2017	25.1	33	7.3	77.0%	21.7%	1.3%
Tue 17/01/2017	25.1	32	7.4	78.5%	20.0%	1.5%
Wed 18/01/2017	26.1	33	7.3	77.8%	19.4%	2.8%

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



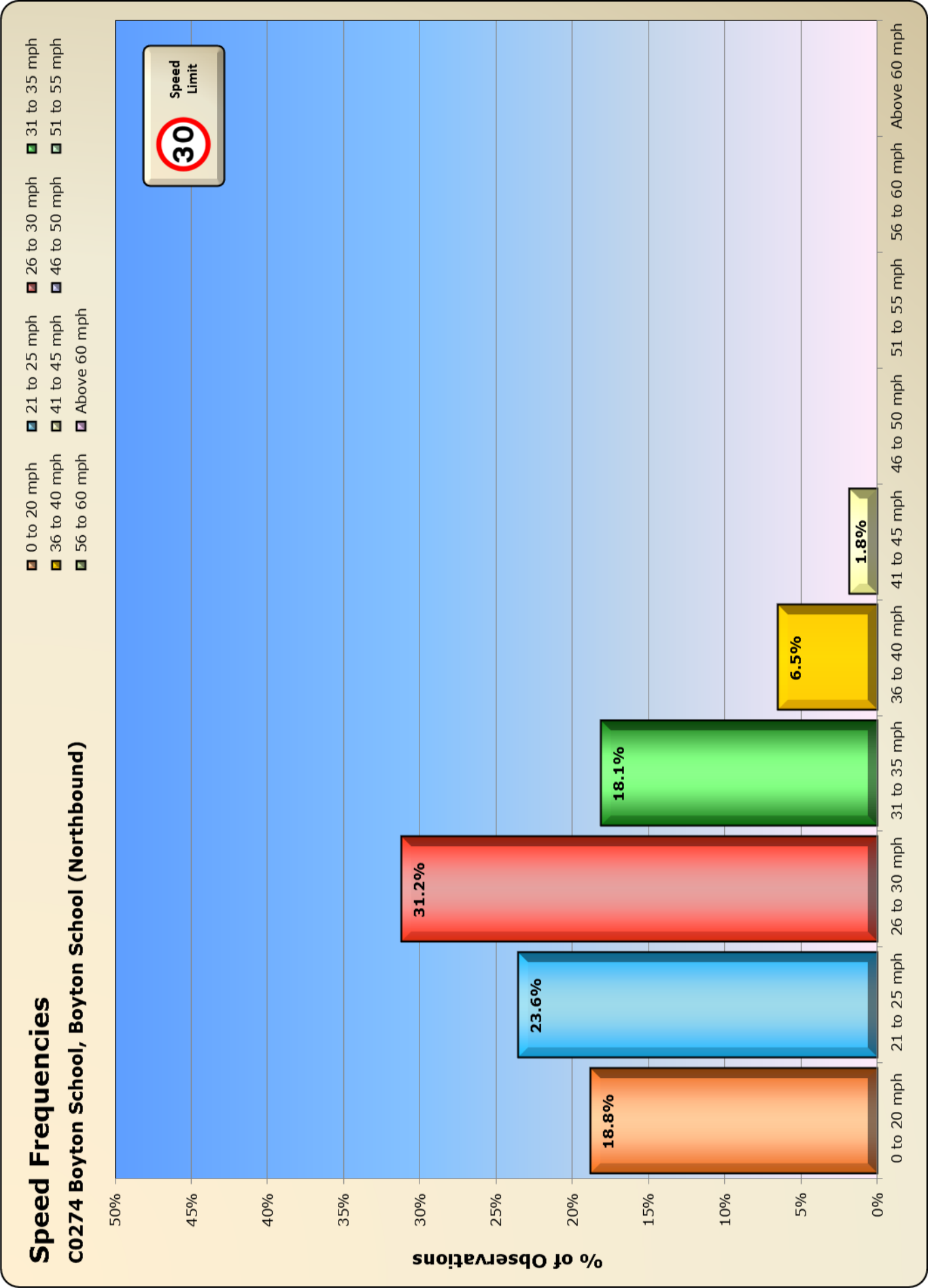
3.1.3. Northbound Speed Limit Compliance by Day Chart.




3.2.1. Northbound Speed Frequencies by Day Table.

Date	№ ≤ 30			№ > 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	
Wed 11/01/2017	19	11	18	18	2	6	0	0	0	0	74
Thu 12/01/2017	12	34	32	19	6	0	0	0	0	0	103
Fri 13/01/2017	28	47	31	20	9	1	0	0	0	0	136
Sat 14/01/2017	13	22	50	25	8	3	0	0	0	0	121
Sun 15/01/2017	6	12	32	26	9	0	0	0	0	0	85
Mon 16/01/2017	36	42	39	23	10	2	0	0	0	0	152
Tue 17/01/2017	36	26	44	18	9	2	0	0	0	0	135
Wed 18/01/2017	15	13	28	10	4	2	0	0	0	0	72
Total % of Total	165	207	274	159	57	16	0	0	0	0	878
	18.8%	23.6%	31.2%	18.1%	6.5%	1.8%	0.0%	0.0%	0.0%	0.0%	100.0%

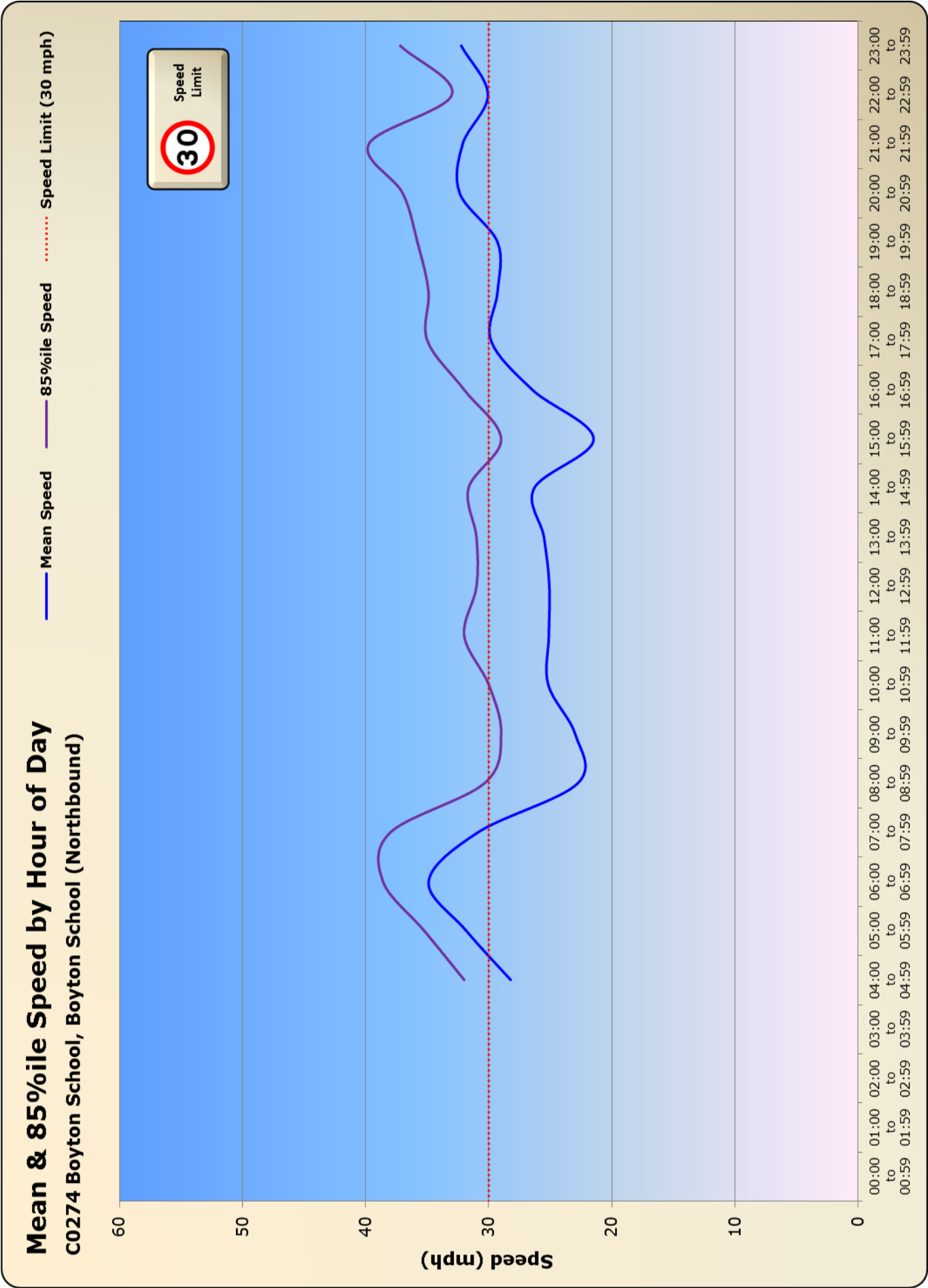
3.2.2. Northbound Speed Frequencies Chart.



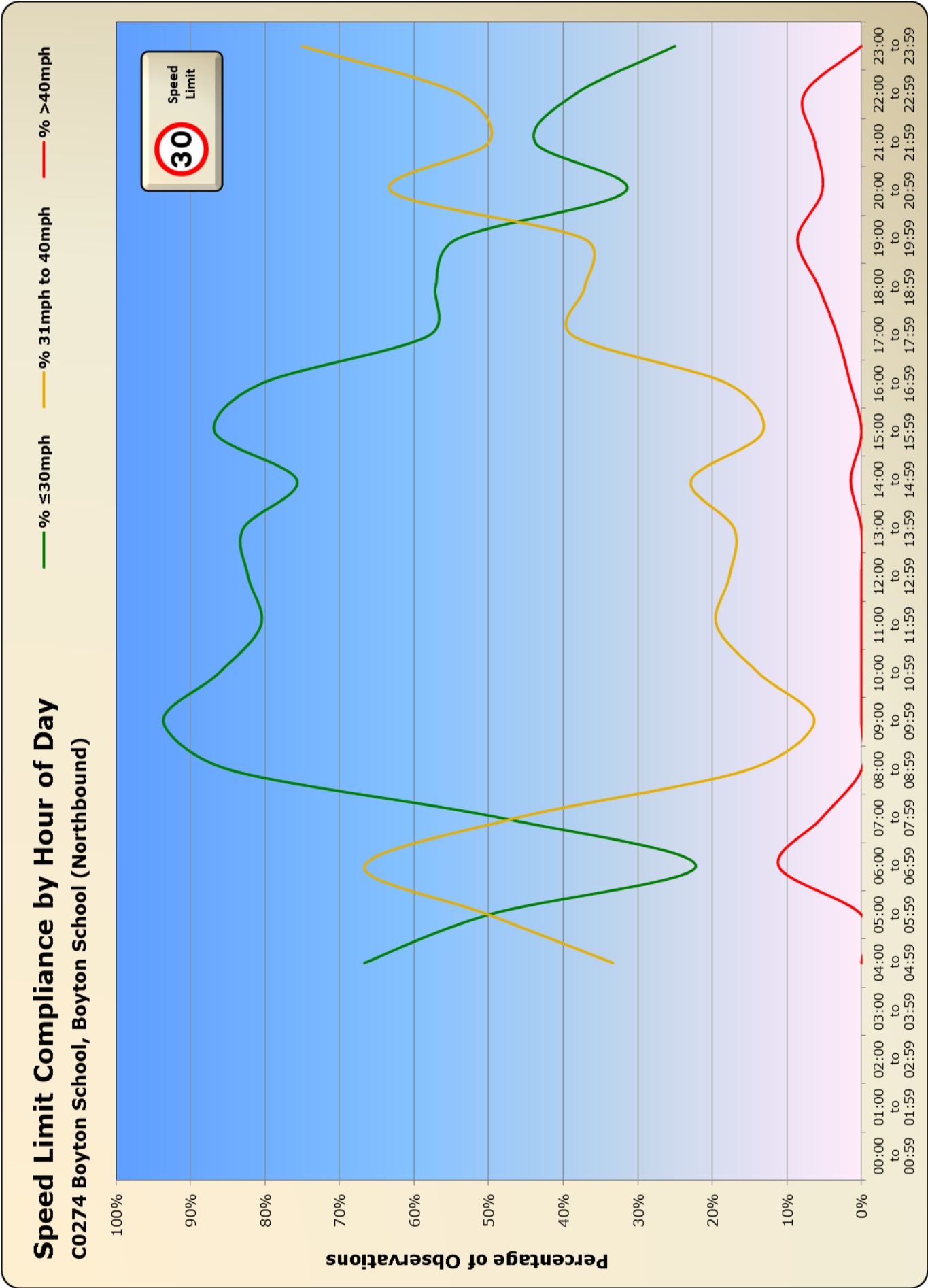
3.3.1. Northbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	26.7	29	3.2	100.0%	0.0%	0.0%
01:00 to 01:59	-	-	-	-	-	-
02:00 to 02:59	35.0	35	-	0.0%	100.0%	0.0%
03:00 to 03:59	-	-	-	-	-	-
04:00 to 04:59	28.2	32	5.4	66.7%	33.3%	0.0%
05:00 to 05:59	31.8	35	3.3	50.0%	50.0%	0.0%
06:00 to 06:59	34.9	39	4.5	22.2%	66.7%	11.1%
07:00 to 07:59	30.9	38	5.8	48.2%	46.4%	5.4%
08:00 to 08:59	22.8	30	6.9	84.7%	15.3%	0.0%
09:00 to 09:59	23.0	29	6.1	93.7%	6.3%	0.0%
10:00 to 10:59	25.2	30	5.3	86.3%	13.8%	0.0%
11:00 to 11:59	25.1	32	6.5	80.6%	19.4%	0.0%
12:00 to 12:59	25.1	31	6.0	82.3%	17.7%	0.0%
13:00 to 13:59	25.5	31	5.4	82.9%	17.1%	0.0%
14:00 to 14:59	26.3	32	6.7	75.7%	22.9%	1.4%
15:00 to 15:59	21.5	29	7.4	86.7%	13.3%	0.0%
16:00 to 16:59	26.5	32	5.8	80.6%	17.9%	1.5%
17:00 to 17:59	29.8	35	5.2	58.1%	38.7%	3.2%
18:00 to 18:59	29.3	35	6.8	57.1%	37.1%	5.7%
19:00 to 19:59	29.3	36	7.5	54.3%	37.1%	8.6%
20:00 to 20:59	32.4	37	4.8	31.6%	63.2%	5.3%
21:00 to 21:59	32.1	40	7.2	43.8%	50.0%	6.3%
22:00 to 22:59	30.1	33	5.6	38.5%	53.8%	7.7%
23:00 to 23:59	32.3	37	7.8	25.0%	75.0%	0.0%

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.

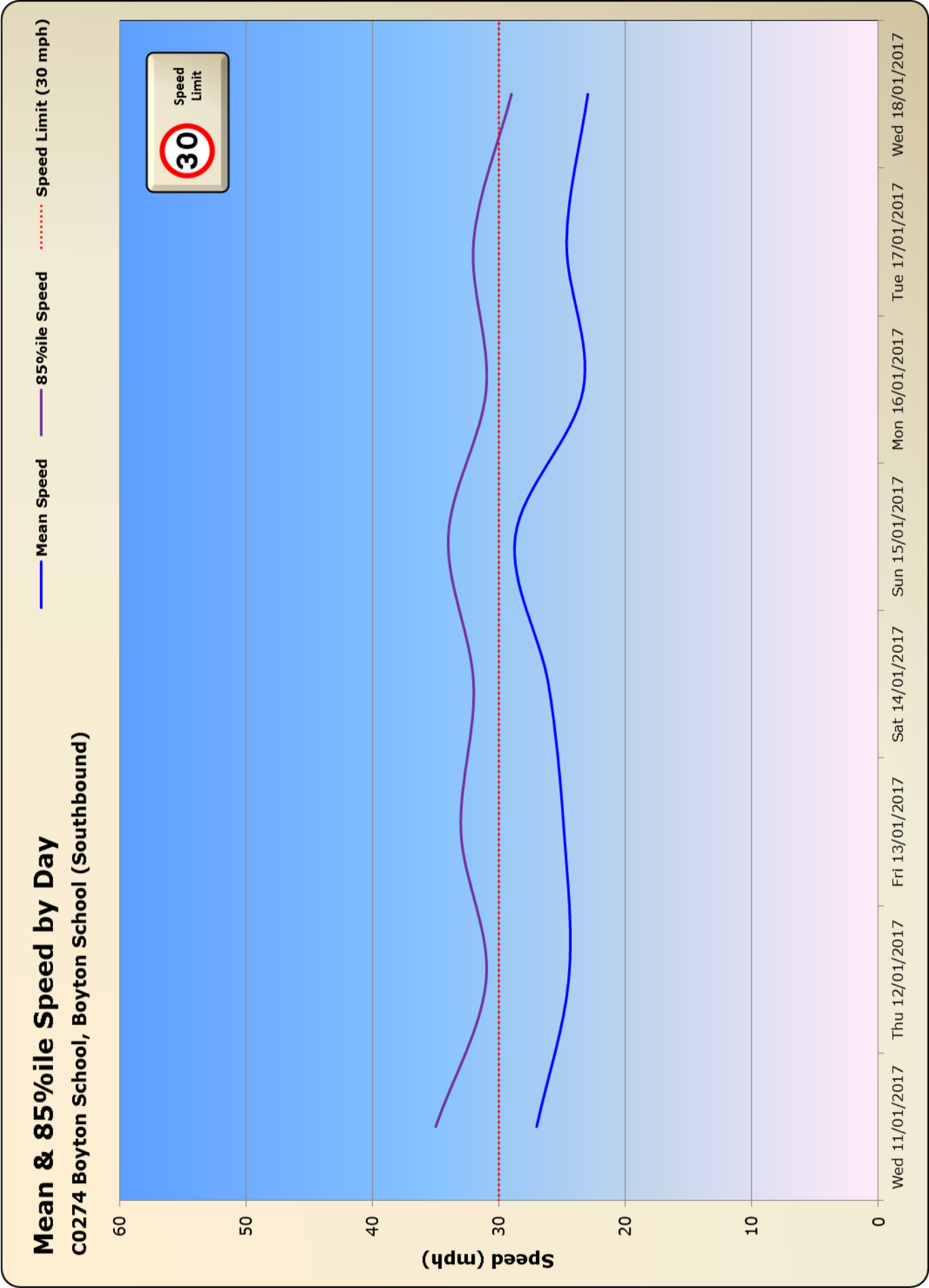


4. Southbound Detailed Statistics.

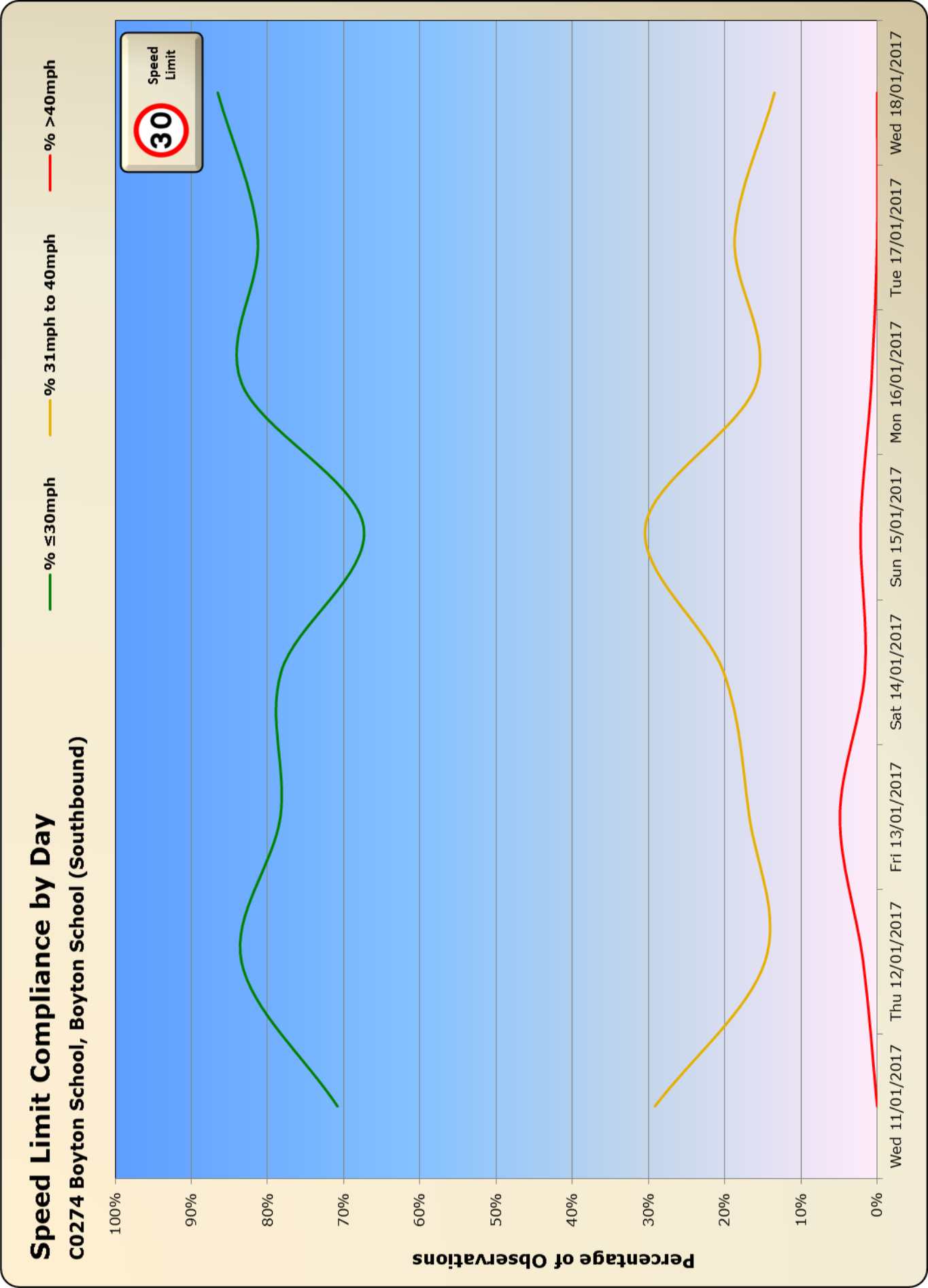
4.1.1. Southbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
Wed 11/01/2017	27.0	35	7.2	70.8%	29.2%	0.0%
Thu 12/01/2017	24.5	31	7.0	83.4%	14.7%	1.8%
Fri 13/01/2017	24.8	33	7.8	78.3%	16.8%	4.9%
Sat 14/01/2017	26.1	32	6.4	78.2%	20.2%	1.6%
Sun 15/01/2017	28.7	34	5.2	67.4%	30.4%	2.2%
Mon 16/01/2017	23.3	31	7.7	83.5%	15.8%	0.8%
Tue 17/01/2017	24.6	32	6.7	81.3%	18.7%	0.0%
Wed 18/01/2017	23.0	29	6.4	86.5%	13.5%	0.0%

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



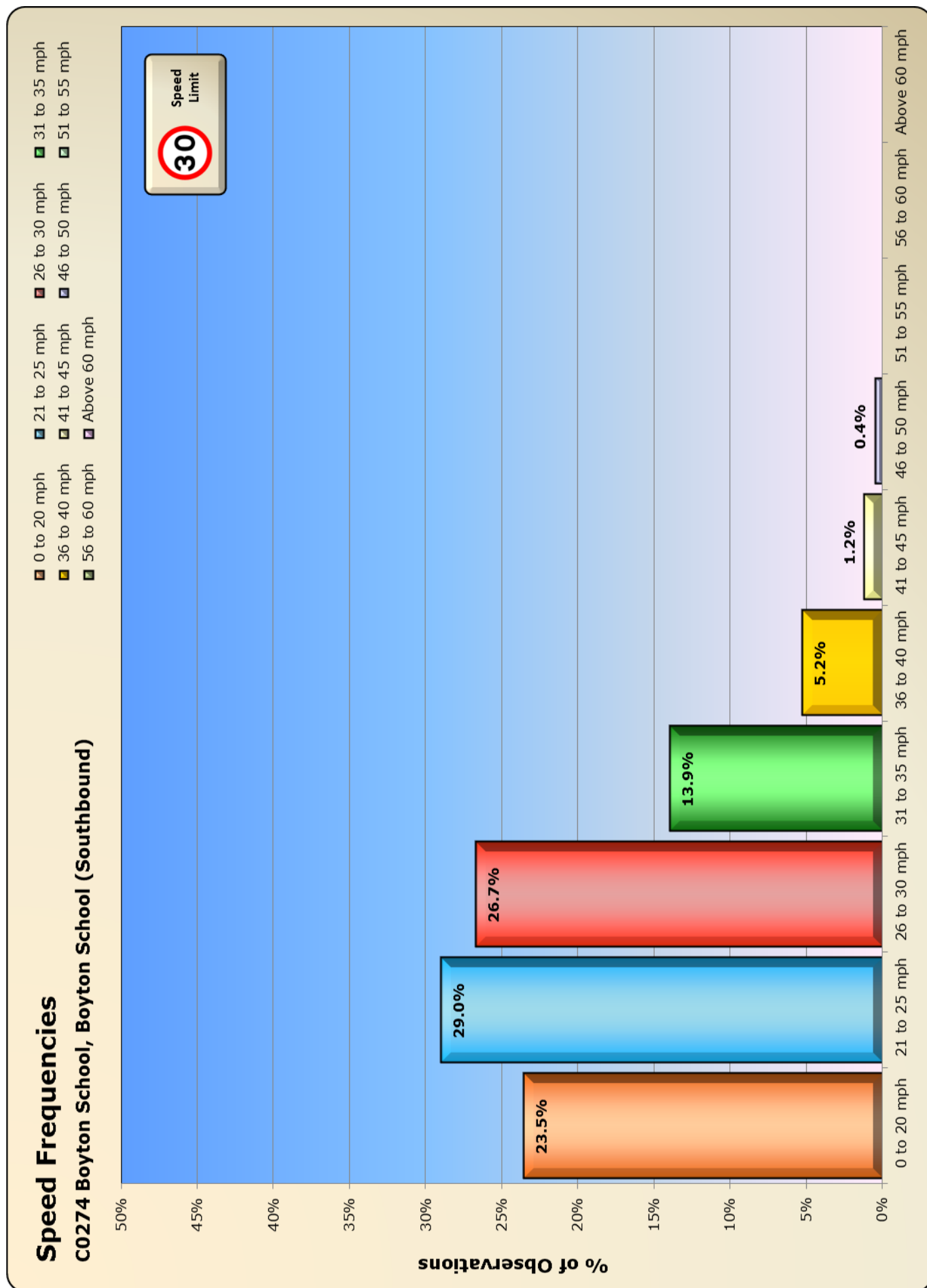
4.1.3. Southbound Speed Limit Compliance by Day Chart.




4.2.1. Southbound Speed Frequencies by Day Table.

Date	№ ≤ 30			№ > 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	
Wed 11/01/2017	9	24	18	12	9	0	0	0	0	0	72
Thu 12/01/2017	36	56	44	19	5	2	1	0	0	0	163
Fri 13/01/2017	39	45	28	20	4	5	2	0	0	0	143
Sat 14/01/2017	24	34	39	18	7	1	1	0	0	0	124
Sun 15/01/2017	3	25	34	22	6	2	0	0	0	0	92
Mon 16/01/2017	47	33	31	12	9	1	0	0	0	0	133
Tue 17/01/2017	39	35	39	18	8	0	0	0	0	0	139
Wed 18/01/2017	19	14	12	7	0	0	0	0	0	0	52
Total % of Total	216	266	245	128	48	11	4	0	0	0	918
	23.5%	29.0%	26.7%	13.9%	5.2%	1.2%	0.4%	0.0%	0.0%	0.0%	100.0%

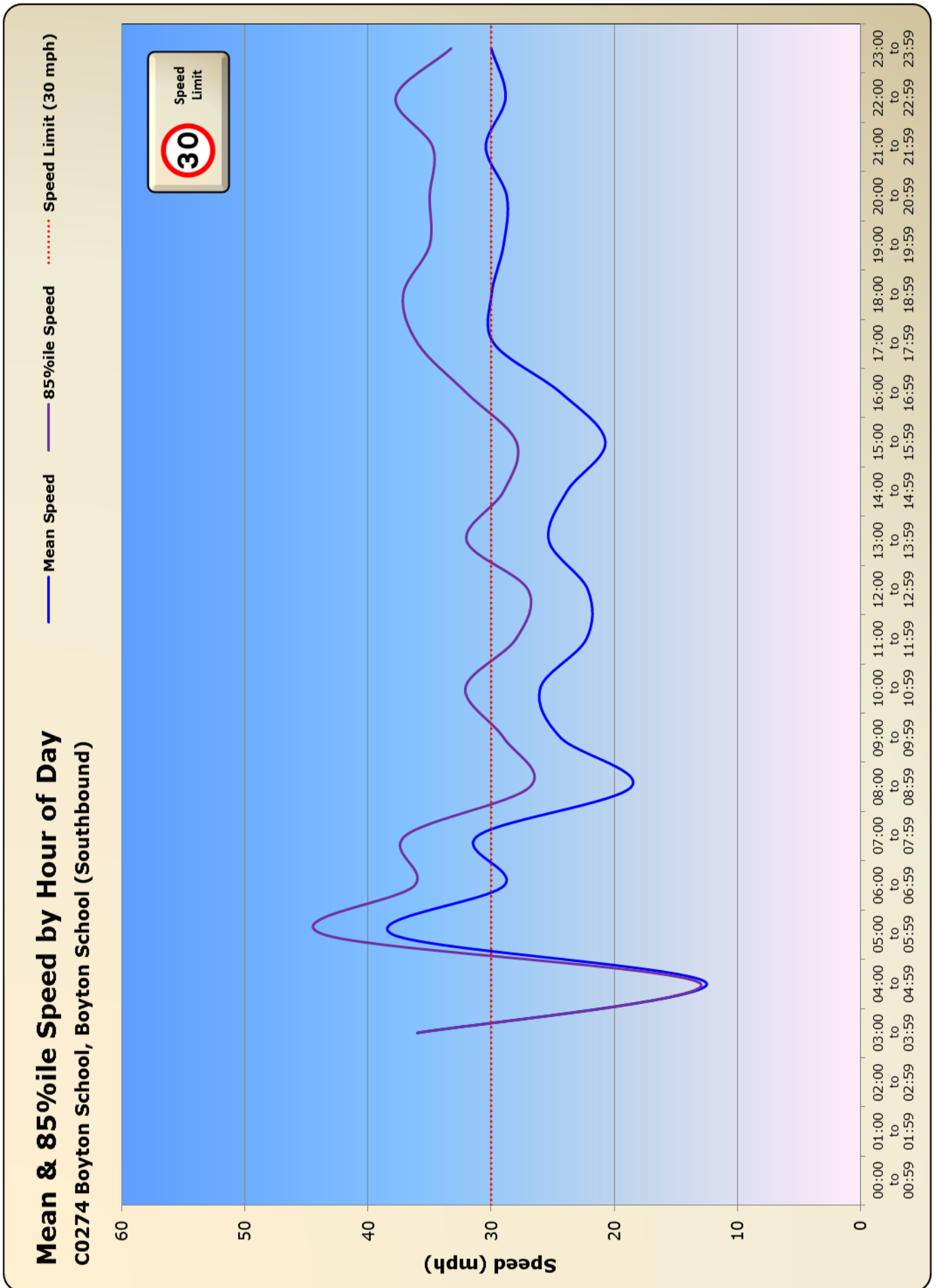
4.2.2. Southbound Speed Frequencies Chart.



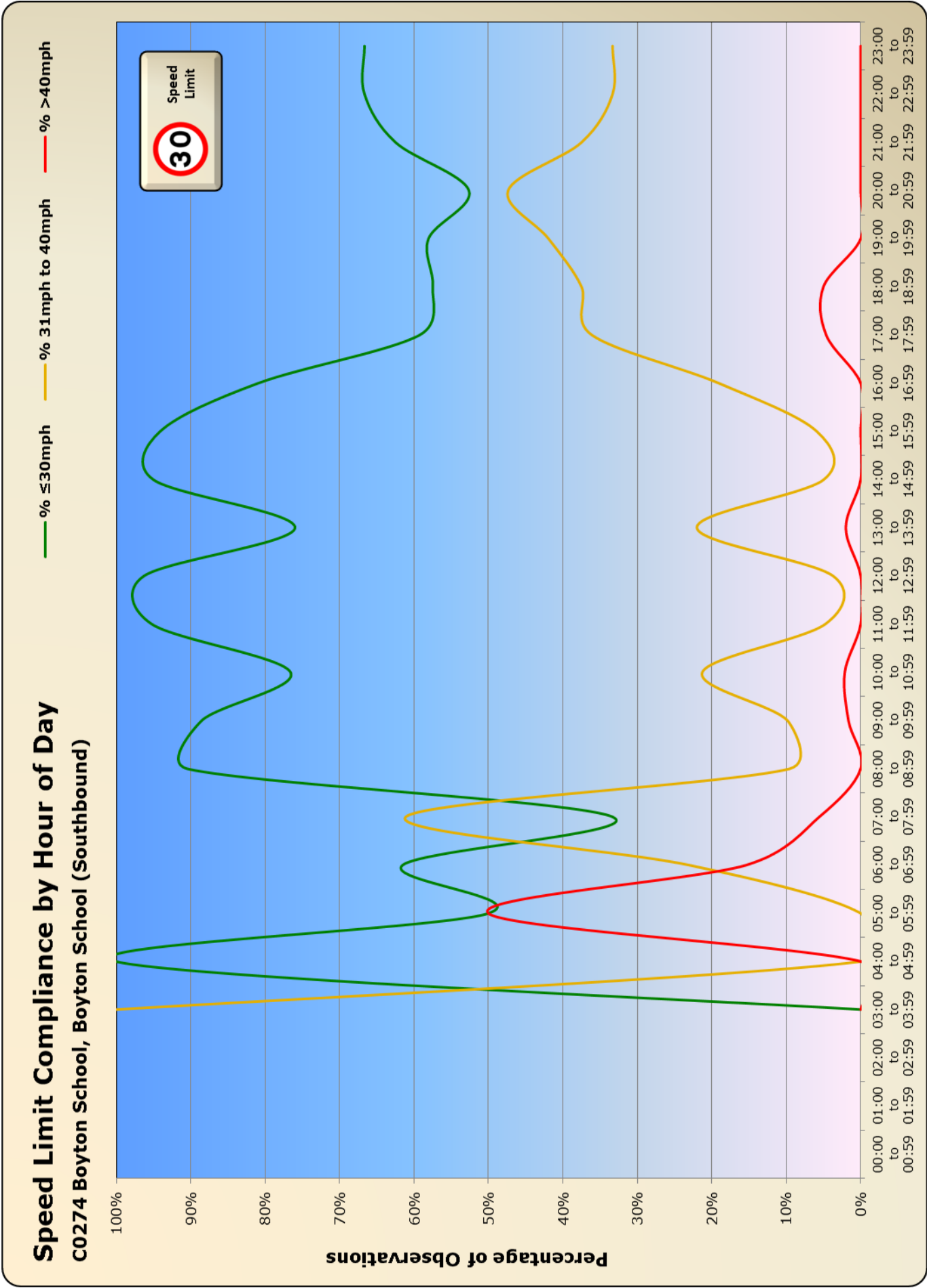
4.3.1. Southbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	% ≤ 	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	-	-	-	-	-	-
01:00 to 01:59	24.3	28	4.2	95.2%	4.8%	0.0%
02:00 to 02:59	-	-	-	-	-	-
03:00 to 03:59	36.0	36	-	0.0%	100.0%	0.0%
04:00 to 04:59	12.5	13	0.8	100.0%	0.0%	0.0%
05:00 to 05:59	38.0	44	11.3	50.0%	0.0%	50.0%
06:00 to 06:59	28.9	36	9.4	61.5%	23.1%	15.4%
07:00 to 07:59	31.1	37	6.9	33.3%	61.1%	5.6%
08:00 to 08:59	18.6	27	7.4	90.5%	9.5%	0.0%
09:00 to 09:59	24.4	29	6.0	88.5%	9.8%	1.6%
10:00 to 10:59	26.0	32	6.2	76.6%	21.3%	2.1%
11:00 to 11:59	22.3	28	5.6	95.2%	4.8%	0.0%
12:00 to 12:59	22.1	27	5.5	96.3%	3.7%	0.0%
13:00 to 13:59	25.3	32	7.0	76.0%	22.0%	2.0%
14:00 to 14:59	23.9	29	5.0	95.0%	5.0%	0.0%
15:00 to 15:59	20.7	28	6.3	94.1%	5.9%	0.0%
16:00 to 16:59	24.3	32	7.0	81.0%	19.0%	0.0%
17:00 to 17:59	29.8	36	6.2	59.3%	36.1%	4.6%
18:00 to 18:59	30.0	37	6.3	57.5%	37.5%	5.0%
19:00 to 19:59	29.0	35	6.0	58.1%	41.9%	0.0%
20:00 to 20:59	28.7	35	6.1	52.6%	47.4%	0.0%
21:00 to 21:59	30.4	35	3.5	62.5%	37.5%	0.0%
22:00 to 22:59	28.8	38	9.0	66.7%	33.3%	0.0%
23:00 to 23:59	30.0	33	3.2	66.7%	33.3%	0.0%

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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☎ 01872 324941 ☎ 494941

✉ speedvisor@cormacltd.co.uk