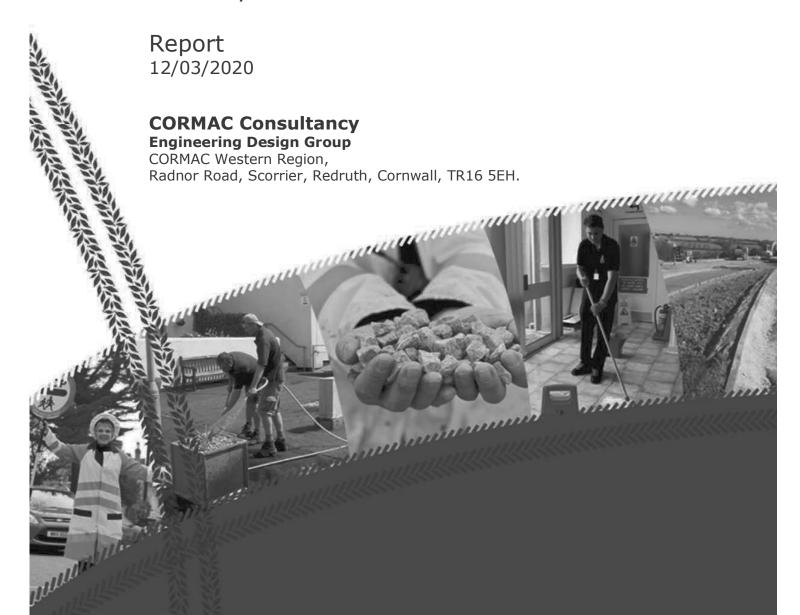


RadarClass

B3249 Church Street, St Germans February 2020





RadarClass

B3249 Church Street, St Germans February 2020

South-eastbound / North-westbound

Ro	ute Nº	Column Nº	Neighbourhood Service Area	RadarClass Unit ID	Ordnance Survey Grid Reference	
В	3249	Post	East	Unit 10	235712 / 057813	

Date of Deployment	End of Operation	Total Period of Operation
21/02/2020	28/02/2020	8 days

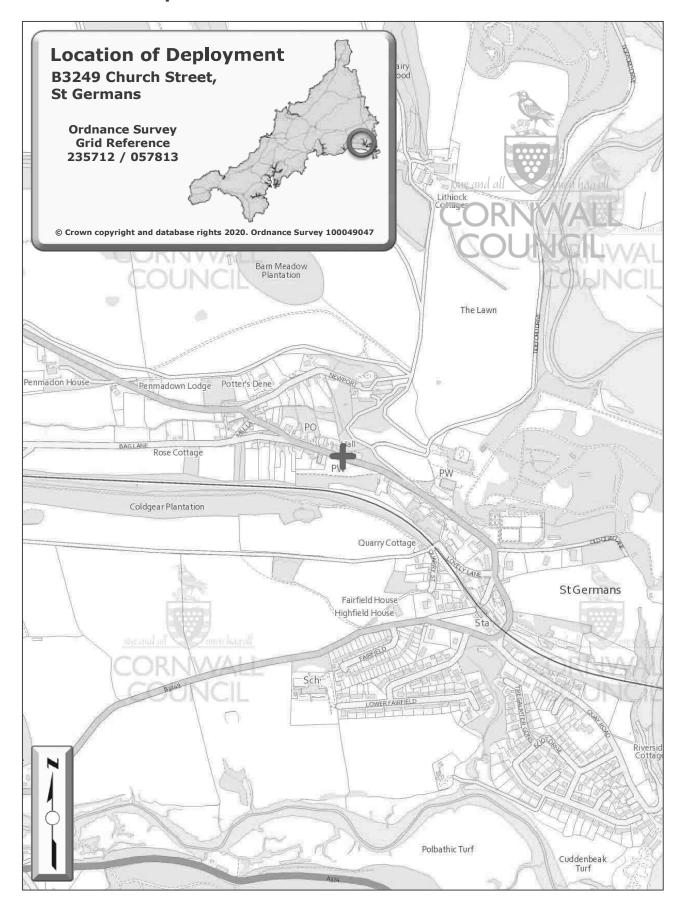
Summary Table

30	All Observations		Week	cdays	Weekends		
Speed Limit	South- eastbound	North- westbound	South- eastbound	North- westbound	South- eastbound	North- westbound	
Number of Observations:	3,730	3,326	3,022	2,668	708	658	
Mean Speed (mph):	25.7	26.7	25.7	26.6	25.7	27.5	
85%ile Speed (mph):	30	32	31	32	30	33	
Standard Deviation:	5.1	5.8	5.2	5.9	4.7	5.2	
% ≤ 30 :	85.2%	76.5%	85.0%	77.0%	86.3%	74.6%	
% 31 mph to 40 mph:	14.6%	22.8%	14.9%	22.5%	13.7%	24.3%	
% >40 mph:	0.1%	0.7%	0.2%	0.6%	0.0%	1.1%	

Comments:

Data Submitted by:	Ken Dunn	Data Processed by:	Jim Rowe

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 antivandal 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.



№ 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 $\,$

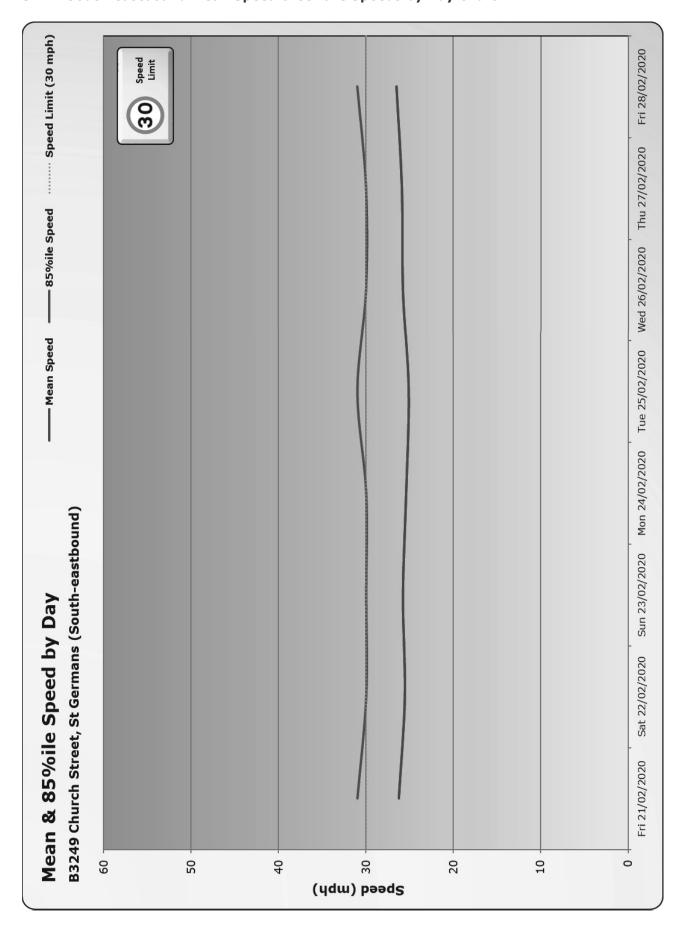
the 30 mph speed limit).

3. South-eastbound Detailed Statistics.

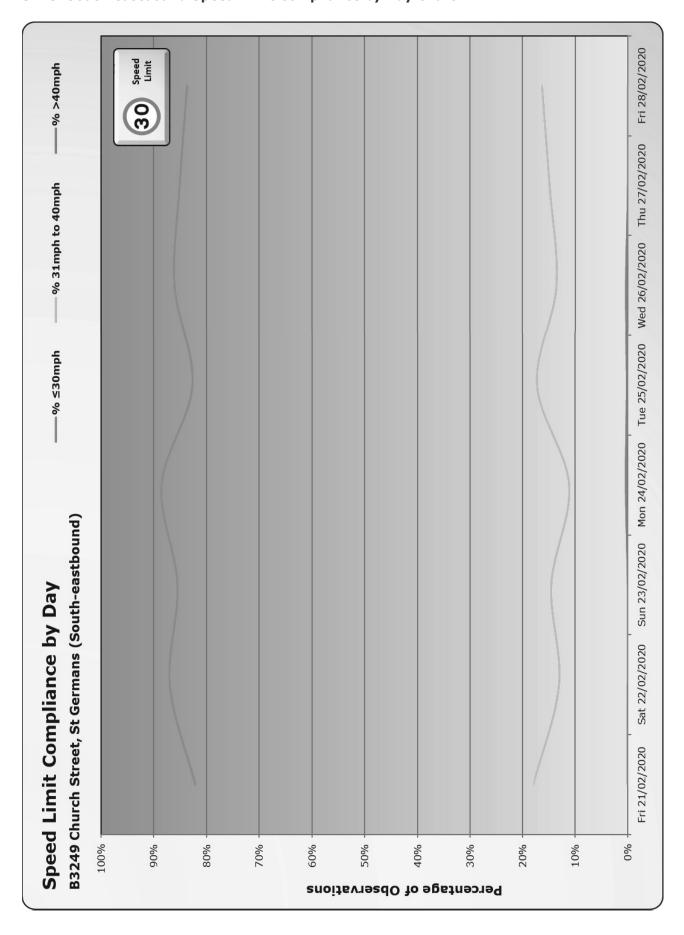
3.1.1. South-eastbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	№ ≤ 30	% 31 mph to 40 mph	% >40 mph
Fri 21/02/2020	26.3	31	5.0	82.1%	17.9%	0.0%
Sat 22/02/2020	25.6	30	4.6	86.9%	13.1%	0.0%
Sun 23/02/2020	25.8	30	4.9	85.5%	14.5%	0.0%
Mon 24/02/2020	25.4	30	4.7	88.5%	11.2%	0.3%
Tue 25/02/2020	25.2	31	6.5	82.7%	17.2%	0.2%
Wed 26/02/2020	25.8	30	5.1	86.0%	13.6%	0.3%
Thu 27/02/2020	25.9	30	4.7	85.1%	14.9%	0.0%
Fri 28/02/2020	26.5	31	4.7	83.6%	16.4%	0.0%

3.1.2. South-eastbound Mean Speed & 85%ile Speeds by Day Chart.



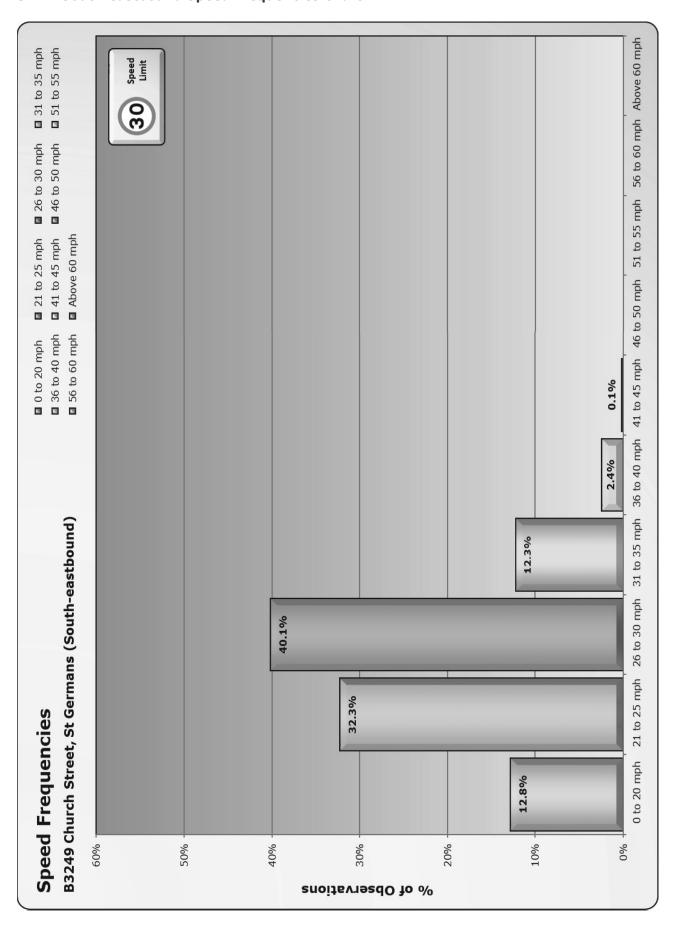
3.1.3. South-eastbound Speed Limit Compliance by Day Chart.



3.2.1. South-eastbound Speed Frequencies by Day Table.

	Nº ≤ 30		№ > 30								
Date	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	Total
Fri 21/02/2020	48	104	179	62	10	0	0	0	0	0	403
Sat 22/02/2020	48	138	160	47	5	0	0	0	0	0	398
Sun 23/02/2020	38	100	127	39	6	0	0	0	0	0	310
Mon 24/02/2020	68	229	226	56	10	2	0	0	0	0	591
Tue 25/02/2020	123	155	232	83	23	1	0	0	0	0	617
Wed 26/02/2020	76	204	238	65	17	2	0	0	0	0	602
Thu 27/02/2020	66	230	257	81	16	0	0	0	0	0	650
Fri 28/02/2020	12	43	78	24	2	0	0	0	0	0	159
Total	479	1,203	1,497	457	89	5	0	0	0	0	3,730
% of Total	12.8%	32.3%	40.1%	12.3%	2.4%	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%

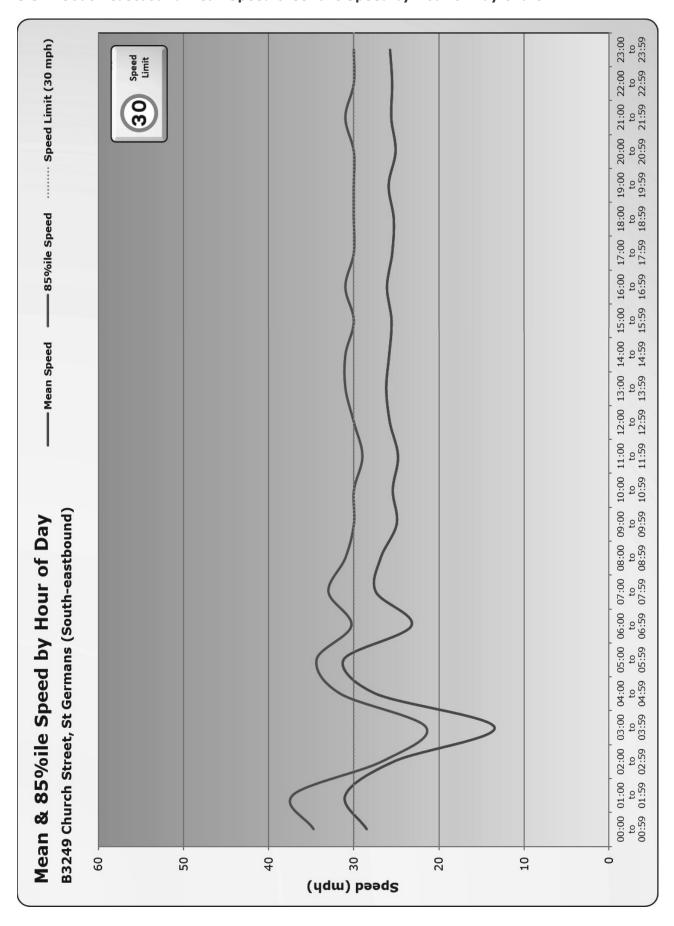
3.2.2. South-eastbound Speed Frequencies Chart.



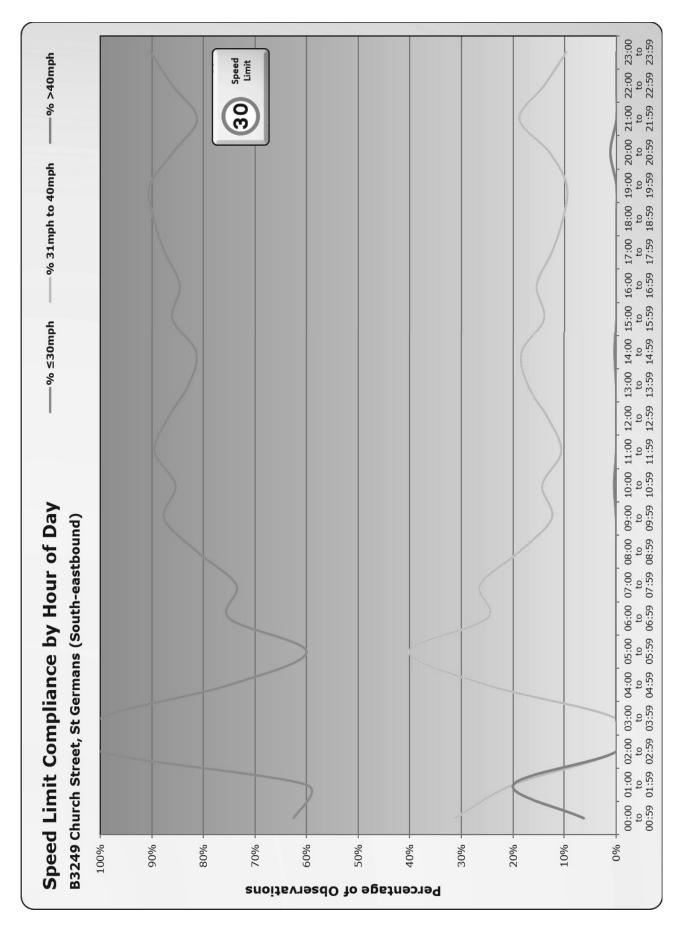
3.3.1. South-eastbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	N ₂ ≤ 30	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	28.5	35	6.9	62.5%	31.3%	6.3%
01:00 to 01:59	31.0	37	8.3	60.0%	20.0%	20.0%
02:00 to 02:59	25.3	27	1.9	100.0%	0.0%	0.0%
03:00 to 03:59	13.5	22	6.3	100.0%	0.0%	0.0%
04:00 to 04:59	27.5	32	5.2	75.0%	25.0%	0.0%
05:00 to 05:59	31.2	34	4.2	60.0%	40.0%	0.0%
06:00 to 06:59	23.3	30	10.2	75.0%	25.0%	0.0%
07:00 to 07:59	27.4	33	5.9	73.6%	26.4%	0.0%
08:00 to 08:59	26.9	31	4.7	81.2%	18.8%	0.0%
09:00 to 09:59	25.0	30	4.9	87.6%	12.4%	0.0%
10:00 to 10:59	25.4	30	5.0	85.4%	14.2%	0.4%
11:00 to 11:59	24.8	29	5.2	89.5%	10.5%	0.0%
12:00 to 12:59	25.8	30	4.5	87.0%	13.0%	0.0%
13:00 to 13:59	26.2	31	5.1	82.9%	17.1%	0.0%
14:00 to 14:59	25.9	31	5.8	81.4%	18.3%	0.3%
15:00 to 15:59	25.6	30	4.8	86.0%	14.0%	0.0%
16:00 to 16:59	26.1	31	4.9	84.6%	15.4%	0.0%
17:00 to 17:59	25.5	30	4.8	87.5%	12.5%	0.0%
18:00 to 18:59	25.3	30	4.9	89.7%	10.3%	0.0%
19:00 to 19:59	25.9	30	4.1	90.4%	9.6%	0.0%
20:00 to 20:59	25.1	30	6.4	85.9%	12.9%	1.2%
21:00 to 21:59	25.6	31	6.7	81.3%	18.8%	0.0%
22:00 to 22:59	25.5	30	4.7	86.0%	14.0%	0.0%
23:00 to 23:59	25.7	30	5.4	90.3%	9.7%	0.0%

3.3.2. South-eastbound Mean Speed & 85%ile Speed by Hour of Day Chart.



3.3.3. South-eastbound Speed Limit Compliance by Hour of Day Chart.

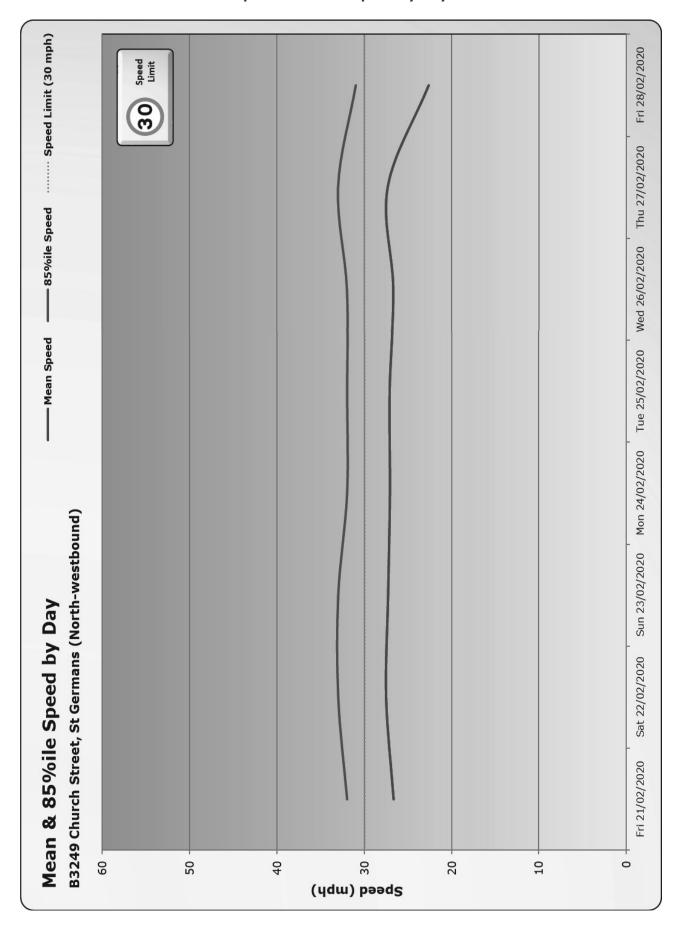


4. North-westbound Detailed Statistics.

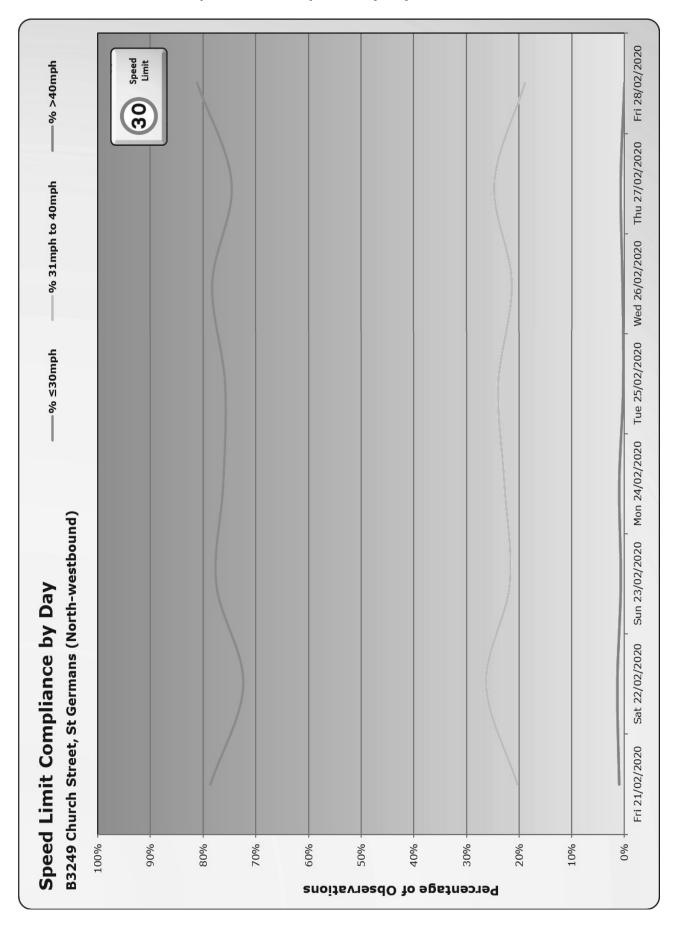
4.1.1. North-westbound Daily Summary Table.

Date	Mean Speed	85%ile Speed	Standard Deviation	№ ≤ 30	% 31 mph to 40 mph	% >40 mph
Fri 21/02/2020	26.7	32	5.5	78.6%	20.4%	1.0%
Sat 22/02/2020	27.6	33	5.4	72.3%	26.3%	1.4%
Sun 23/02/2020	27.3	33	4.9	77.5%	21.8%	0.7%
Mon 24/02/2020	27.1	32	5.3	76.1%	22.9%	1.0%
Tue 25/02/2020	27.2	32	5.4	75.8%	24.0%	0.2%
Wed 26/02/2020	26.7	32	5.3	78.2%	21.4%	0.4%
Thu 27/02/2020	27.4	33	5.2	74.5%	24.7%	0.7%
Fri 28/02/2020	22.6	31	8.1	81.1%	18.9%	0.0%

4.1.2. North-westbound Mean Speed & 85%ile Speed by Day Chart.



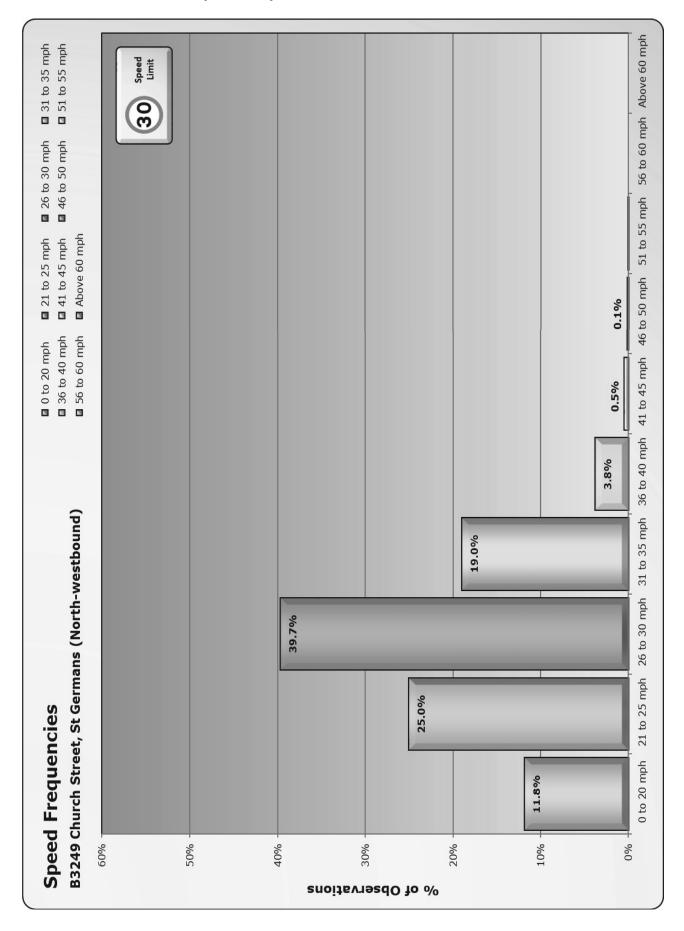
4.1.3. North-westbound Speed Limit Compliance by Day Chart.



4.2.1. North-westbound Speed Frequencies by Day Table.

	№ ≤ 30		№ > 30								
Date	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	Total
Fri 21/02/2020	34	80	121	49	12	3	0	0	0	0	299
Sat 22/02/2020	36	75	153	78	18	5	0	0	0	0	365
Sun 23/02/2020	22	74	131	55	9	2	0	0	0	0	293
Mon 24/02/2020	44	149	190	97	18	1	3	1	0	0	503
Tue 25/02/2020	51	107	224	98	23	0	1	0	0	0	504
Wed 26/02/2020	53	141	219	100	13	2	0	0	0	0	528
Thu 27/02/2020	41	159	201	106	27	4	0	0	0	0	538
Fri 28/02/2020	113	47	80	50	6	0	0	0	0	0	296
Total	394	832	1,319	633	126	17	4	1	0	0	3,326
% of Total	11.8%	25.0%	39.7%	19.0%	3.8%	0.5%	0.1%	0.0%	0.0%	0.0%	100.0%

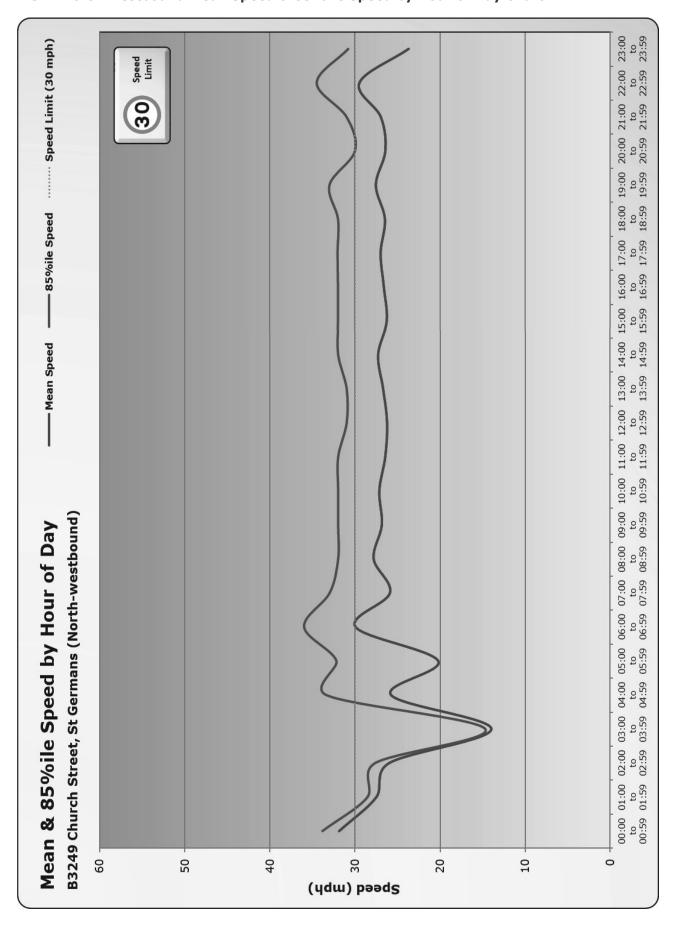
4.2.2. North-westbound Speed Frequencies Chart.



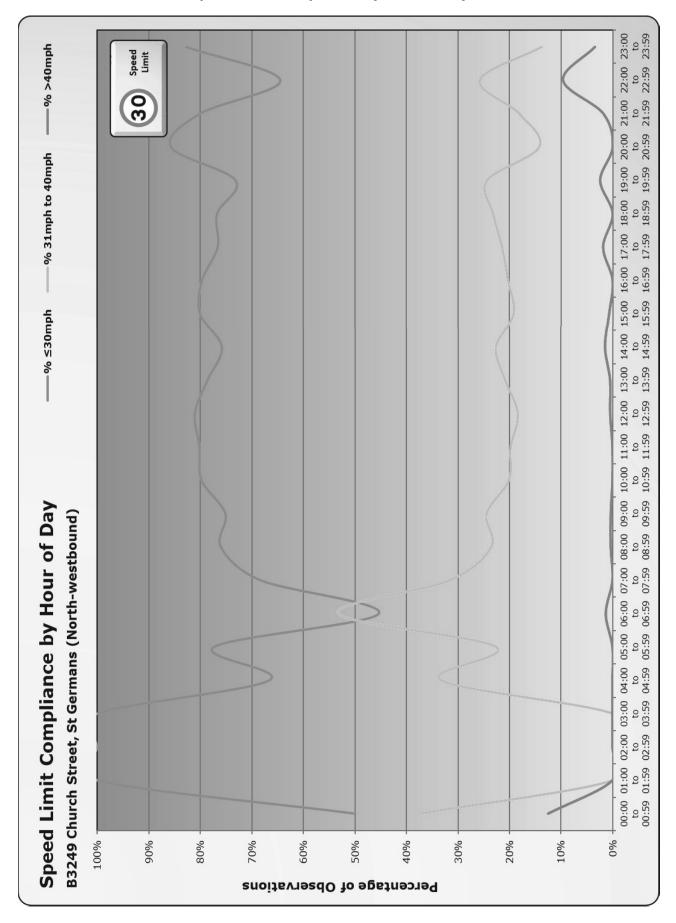
4.3.1. North-westbound Hour of Day Summary Table.

Hour of Day	Mean Speed	85%ile Speed	Standard Deviation	№ ≤ 30	% 31 mph to 40 mph	% >40 mph
00:00 to 00:59	31.9	34	5.9	50.0%	37.5%	12.5%
01:00 to 01:59	27.5	29	2.1	100.0%	0.0%	0.0%
02:00 to 02:59	26.0	28	2.2	100.0%	0.0%	0.0%
03:00 to 03:59	14.0	15	1.0	100.0%	0.0%	0.0%
04:00 to 04:59	25.8	33	8.7	66.7%	33.3%	0.0%
05:00 to 05:59	20.2	32	8.8	77.4%	22.6%	0.0%
06:00 to 06:59	29.9	36	6.9	45.5%	53.2%	1.3%
07:00 to 07:59	25.9	33	8.0	68.3%	31.7%	0.0%
08:00 to 08:59	27.8	32	4.5	76.0%	23.6%	0.3%
09:00 to 09:59	26.9	32	5.3	75.2%	24.5%	0.3%
10:00 to 10:59	27.2	32	4.9	79.8%	20.2%	0.0%
11:00 to 11:59	26.5	32	5.2	80.2%	19.8%	0.0%
12:00 to 12:59	26.2	31	5.4	81.1%	18.5%	0.5%
13:00 to 13:59	26.7	31	5.6	78.6%	20.9%	0.5%
14:00 to 14:59	27.3	32	5.0	75.8%	22.7%	1.4%
15:00 to 15:59	26.3	32	5.3	80.1%	19.2%	0.7%
16:00 to 16:59	26.6	32	5.0	79.7%	20.3%	0.0%
17:00 to 17:59	27.0	32	5.5	76.6%	21.5%	1.9%
18:00 to 18:59	26.5	32	5.4	76.8%	23.2%	0.0%
19:00 to 19:59	27.5	33	5.6	73.2%	24.4%	2.4%
20:00 to 20:59	26.4	30	4.9	85.7%	14.3%	0.0%
21:00 to 21:59	27.0	31	5.7	80.0%	18.2%	1.8%
22:00 to 22:59	29.5	35	6.4	64.5%	25.8%	9.7%
23:00 to 23:59	23.7	31	8.8	82.8%	13.8%	3.4%

4.3.2. North-westbound Mean Speed & 85%ile Speed by Hour of Day Chart.



4.3.3. North-westbound Speed Limit Compliance by Hour of Day Chart.





Produced by Engineering Design Group Cormac Solutions Ltd

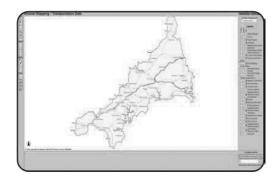






Speed Analysis

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

 Mike Cartwright
Engineering Design Group

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speedvisor@cormacltd.co.uk