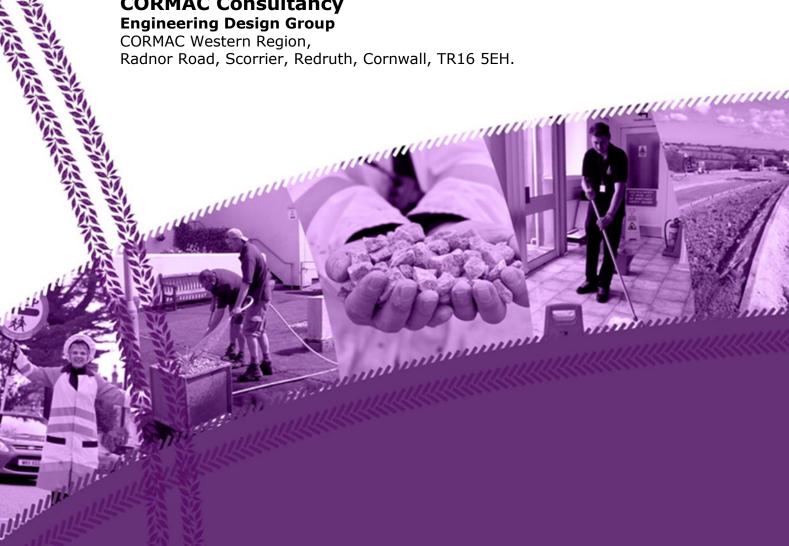


RadarClass

A390 Fore Street, Grampound Site 1 January 2016 Report

09/02/2016

CORMAC Consultancy





RadarClass

A390 Fore Street, Grampound Site 1 January 2016

South-eastbound / North-westbound

| Route № | Column № | Neighbourhood Service Area | RadarClass Unit ID | Ordnance Survey Grid Reference | |
|---------|----------|-------------------------------|-----------------------|-----------------------------------|--|
| A390 | A026 | West | Unit 4 | 193225 / 048467 | |

| Date of Deployment | End of Operation | Total Period of Operation |
|--------------------|------------------|---------------------------|
| 27/01/2016 | 03/02/2016 | 8 days |

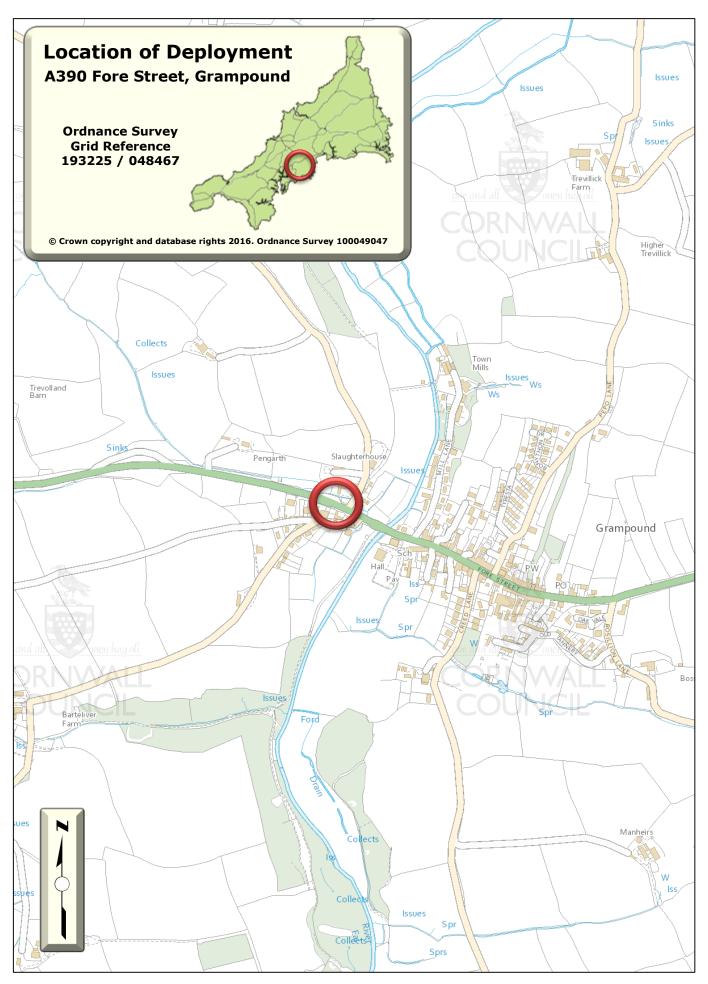
Summary Table

| 30 | All Observations | | Weel | «days | Weekends | | |
|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|
| Speed Limit | South- eastbound | North- westbound | South- eastbound | North- westbound | South- eastbound | North- westbound | |
| Number of Observations: | 36,862 | 37,573 | 28,703 | 29,287 | 8,159 | 8,286 | |
| Mean Speed (mph): | 31.9 | 39.8 | 31.7 | 39.7 | 32.8 | 40.3 | |
| 85%ile Speed (mph): | 37 | 46 | 37 | 46 | 38 | 47 | |
| Standard Deviation: | 5.5 | 7.0 | 5.4 | 6.9 | 5.7 | 7.2 | |
| % ≤ 30 : | 44.1% | 7.4% | 45.7% | 7.7% | 38.5% | 6.6% | |
| % 31 mph to 40 mph: | 49.1% | 47.4% | 48.2% | 48.0% | 52.3% | 45.5% | |
| % >40 mph: | 6.8% | 45.1% | 6.2% | 44.4% | 9.2% | 47.9% | |

Comments:

| Data Submitted by: | Paul Taylor | Data Processed by: | Paul Taylor |
|--------------------|-------------|--------------------|-------------|

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 platon.

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

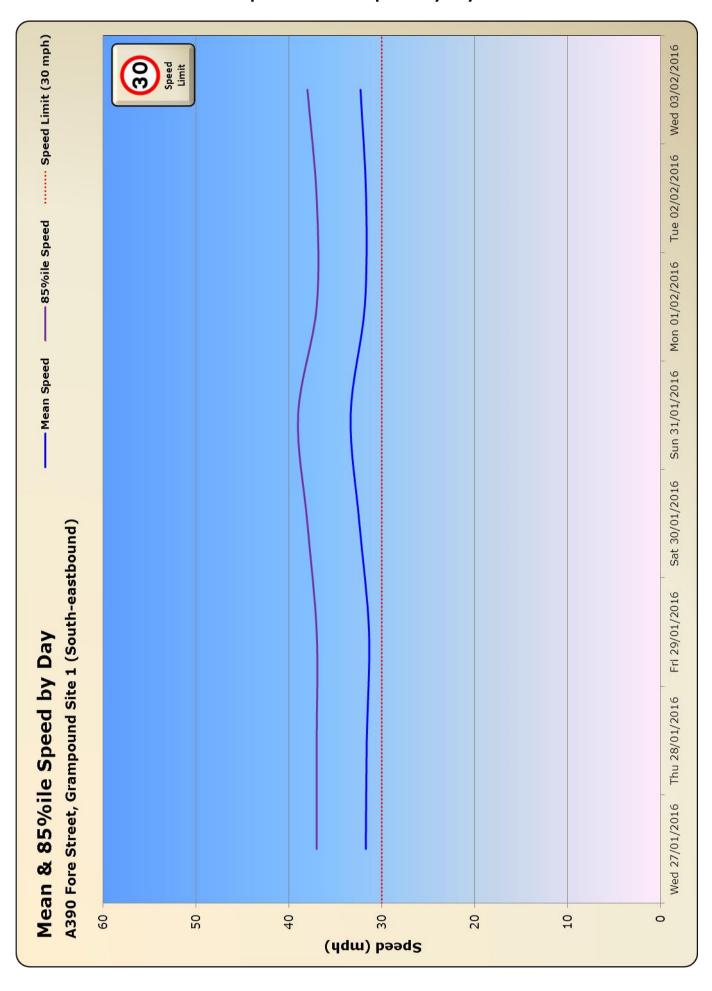
the 30 mph speed limit).

3. South-eastbound Detailed Statistics.

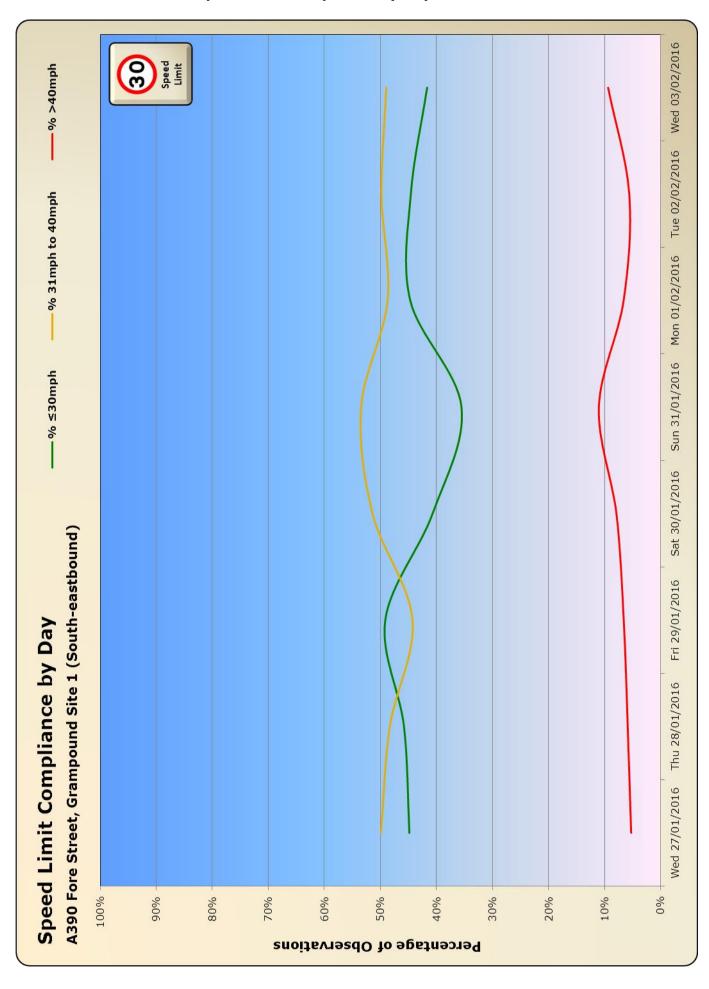
3.1.1. South-eastbound Daily Summary Table.

| Date | Mean Speed | 85%ile Speed | Standard Deviation | % ≤ 30 | % 31 mph to 40 mph | % >40 mph |
|----------------|--------------------|-----------------|-----------------------|--------|-----------------------|-----------|
| Wed 27/01/2016 | 31.7 | 37 | 5.0 | 44.8% | 49.9% | 5.3% |
| Thu 28/01/2016 | 31.6 | 37 | 5.1 | 45.8% | 48.3% | 5.9% |
| Fri 29/01/2016 | 31.4 | 37 | 5.7 | 49.1% | 44.3% | 6.6% |
| Sat 30/01/2016 | 32.4 | 38 | 5.5 | 40.7% | 51.4% | 7.9% |
| Sun 31/01/2016 | 33.3 | 39 | 5.8 | 35.5% | 53.4% | 11.0% |
| Mon 01/02/2016 | 31.8 | 37 | 5.5 | 44.7% | 48.7% | 6.6% |
| Tue 02/02/2016 | 2/2016 31.7 | | 5.2 | 44.6% | 49.8% | 5.6% |
| Wed 03/02/2016 | 32.3 | 38 | 6.1 | 41.7% | 49.0% | 9.4% |

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



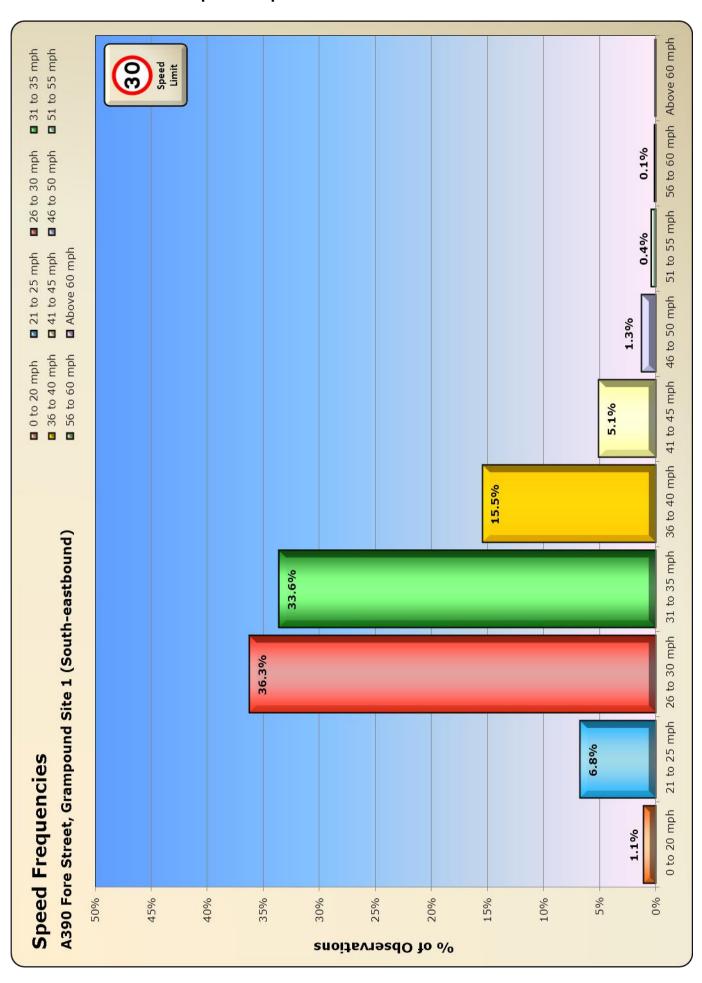
3.1.3. South-eastbound Speed Limit Compliance by Day Chart.



3.2.1. South-eastbound Speed Frequencies by Day Table.

| | № ≤ 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 |
| Wed 27/01/2016 | 19 | 279 | 1,604 | 1,488 | 629 | 174 | 35 | 13 | 1 | 0 | 4,242 |
| Thu 28/01/2016 | 45 | 426 | 2,281 | 2,068 | 836 | 287 | 51 | 12 | 3 | 0 | 6,009 |
| Fri 29/01/2016 | 96 | 533 | 2,200 | 1,749 | 800 | 277 | 71 | 26 | 4 | 1 | 5,757 |
| Sat 30/01/2016 | 56 | 229 | 1,654 | 1,618 | 832 | 285 | 64 | 21 | 4 | 2 | 4,765 |
| Sun 31/01/2016 | 11 | 121 | 1,074 | 1,168 | 646 | 249 | 79 | 34 | 12 | 0 | 3,394 |
| Mon 01/02/2016 | 76 | 375 | 1,991 | 1,796 | 867 | 262 | 79 | 12 | 7 | 1 | 5,466 |
| Tue 02/02/2016 | 72 | 415 | 2,094 | 2,026 | 858 | 243 | 66 | 11 | 3 | 1 | 5,789 |
| Wed 03/02/2016 | 18 | 114 | 468 | 473 | 232 | 94 | 22 | 17 | 2 | 0 | 1,440 |
| Total | 393 | 2,492 | 13,366 | 12,386 | 5,700 | 1,871 | 467 | 146 | 36 | 5 | 36,862 |
| % of Total | 1.1% | 6.8% | 36.3% | 33.6% | 15.5% | 5.1% | 1.3% | 0.4% | 0.1% | 0.0% | 100.0% |

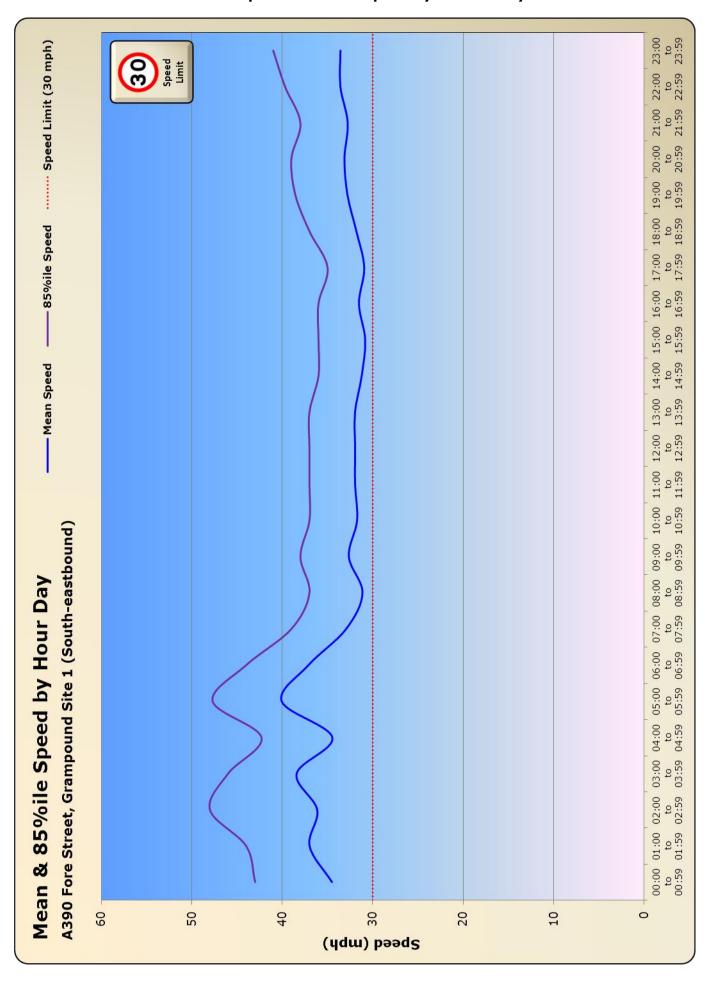
3.2.2. South-eastbound Speed Frequencies Chart.



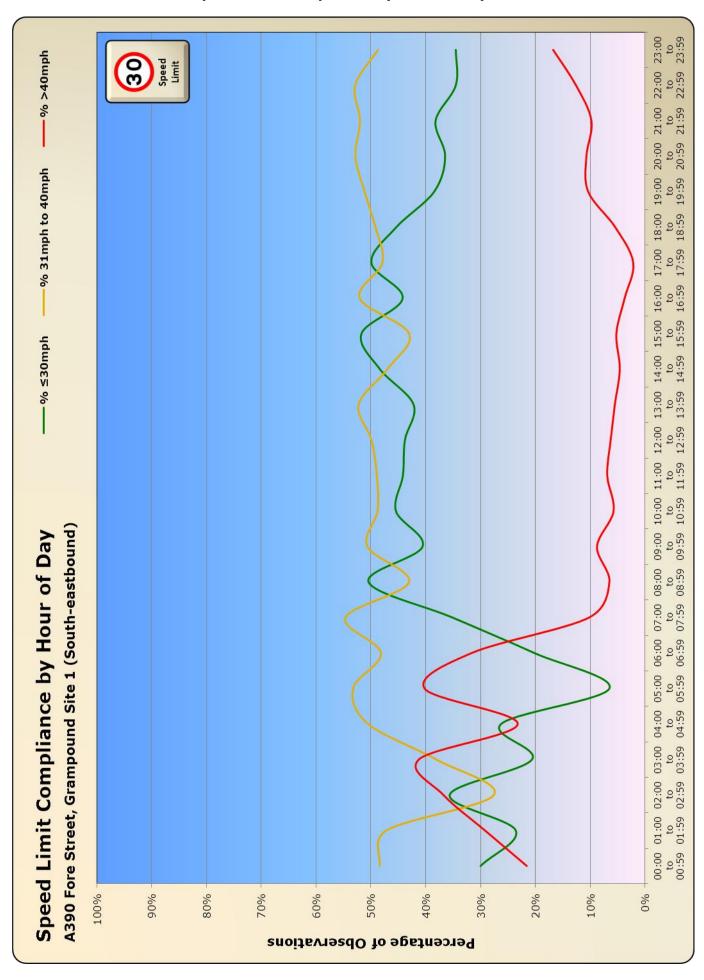
3.3.1. South-eastbound Hour of Day Summary Table.

| Hour of Day | Mean Speed | 85%ile Speed | Standard Deviation | % ≤ 30 | % 31 mph to 40 mph | % >40 mph |
|----------------|---------------|-----------------|-----------------------|--------|-----------------------|-----------|
| 00:00 to 00:59 | 34.5 | 43 | 8.8 | 30.0% | 48.4% | 21.6% |
| 01:00 to 01:59 | 37.0 | 44 | 7.0 | 23.6% | 47.2% | 29.2% |
| 02:00 to 02:59 | 36.1 | 48 | 11.0 | 35.6% | 27.6% | 36.8% |
| 03:00 to 03:59 | 38.4 | 46 | 7.9 | 20.6% | 38.1% | 41.3% |
| 04:00 to 04:59 | 34.5 | 42 | 10.2 | 26.3% | 50.5% | 23.2% |
| 05:00 to 05:59 | 40.1 | 48 | 7.8 | 6.5% | 53.3% | 40.2% |
| 06:00 to 06:59 | 37.1 | 44 | 7.1 | 20.2% | 48.2% | 31.7% |
| 07:00 to 07:59 | 32.9 | 39 | 5.9 | 35.1% | 54.7% | 10.2% |
| 08:00 to 08:59 | 31.1 | 37 | 5.7 | 50.4% | 43.0% | 6.5% |
| 09:00 to 09:59 | 32.6 | 38 | 5.7 | 40.6% | 50.6% | 8.8% |
| 10:00 to 10:59 | 31.7 | 37 | 5.1 | 45.4% | 48.8% | 5.8% |
| 11:00 to 11:59 | 32.0 | 37 | 5.2 | 44.2% | 48.9% | 6.9% |
| 12:00 to 12:59 | 32.0 | 37 | 5.3 | 43.8% | 49.9% | 6.3% |
| 13:00 to 13:59 | 32.0 | 37 | 5.0 | 42.2% | 52.3% | 5.5% |
| 14:00 to 14:59 | 31.2 | 36 | 5.0 | 48.4% | 47.0% | 4.6% |
| 15:00 to 15:59 | 30.8 | 36 | 5.4 | 51.7% | 43.0% | 5.2% |
| 16:00 to 16:59 | 31.5 | 36 | 4.7 | 44.2% | 52.1% | 3.7% |
| 17:00 to 17:59 | 30.9 | 35 | 4.4 | 49.9% | 47.9% | 2.2% |
| 18:00 to 18:59 | 31.8 | 37 | 4.9 | 45.4% | 49.2% | 5.4% |
| 19:00 to 19:59 | 32.8 | 39 | 5.7 | 38.5% | 51.1% | 10.4% |
| 20:00 to 20:59 | 33.1 | 39 | 5.8 | 36.5% | 52.8% | 10.7% |
| 21:00 to 21:59 | 32.8 | 38 | 5.7 | 38.2% | 52.0% | 9.8% |
| 22:00 to 22:59 | 33.6 | 40 6.3 | | 34.5% | 52.9% | 12.6% |
| 23:00 to 23:59 | 33.6 | 41 | 7.2 | 34.5% | 48.7% | 16.8% |

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.

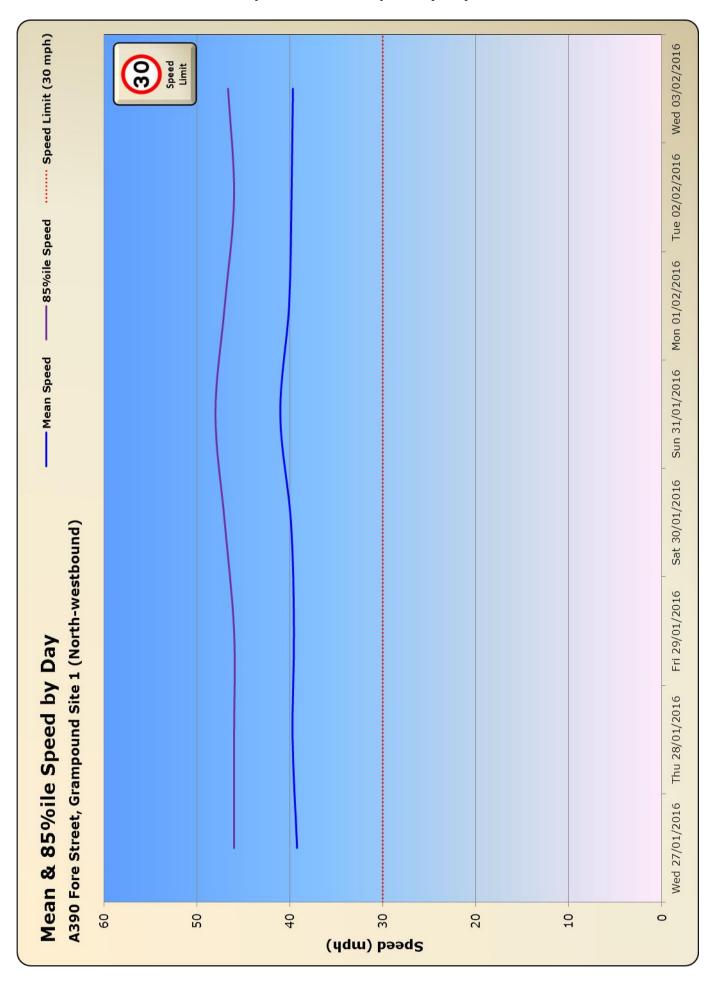


4. North-westbound Detailed Statistics.

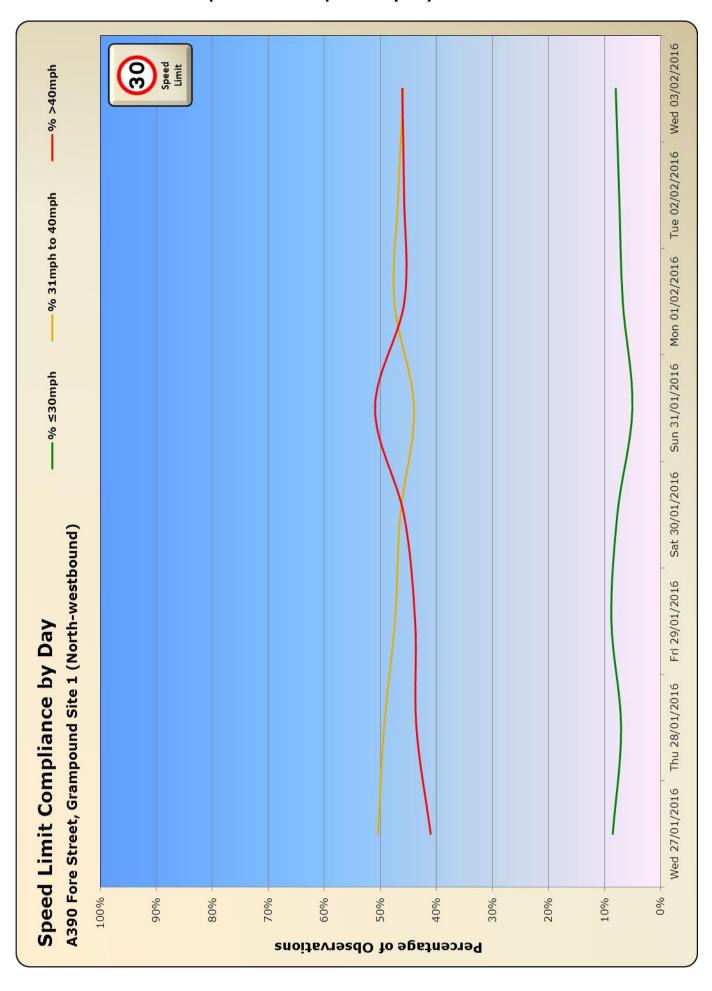
4.1.1. North-westbound Daily Summary Table.

| Date | Mean Speed | 85%ile Speed | Standard Deviation | % ≤ 30 | % 31 mph to 40 mph | % >40 mph |
|----------------|---------------|-----------------|-----------------------|--------|-----------------------|-----------|
| Wed 27/01/2016 | 39.2 | 46 | 7.0 | 8.5% | 50.4% | 41.0% |
| Thu 28/01/2016 | 39.7 | 46 | 6.6 | 7.1% | 49.4% | 43.6% |
| Fri 29/01/2016 | 39.6 | 46 | 6.9 | 8.8% | 47.4% | 43.8% |
| Sat 30/01/2016 | 39.9 | 47 | 7.4 | 7.7% | 46.4% | 45.8% |
| Sun 31/01/2016 | 41.0 | 48 | 6.9 | 5.0% | 44.0% | 51.0% |
| Mon 01/02/2016 | 40.1 | 47 | 6.8 | 6.8% | 47.5% | 45.7% |
| Tue 02/02/2016 | 39.8 | 46 | 7.0 | 7.4% | 46.8% | 45.8% |
| Wed 03/02/2016 | 39.7 | 47 | 7.8 | 8.0% | 45.9% | 46.1% |

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



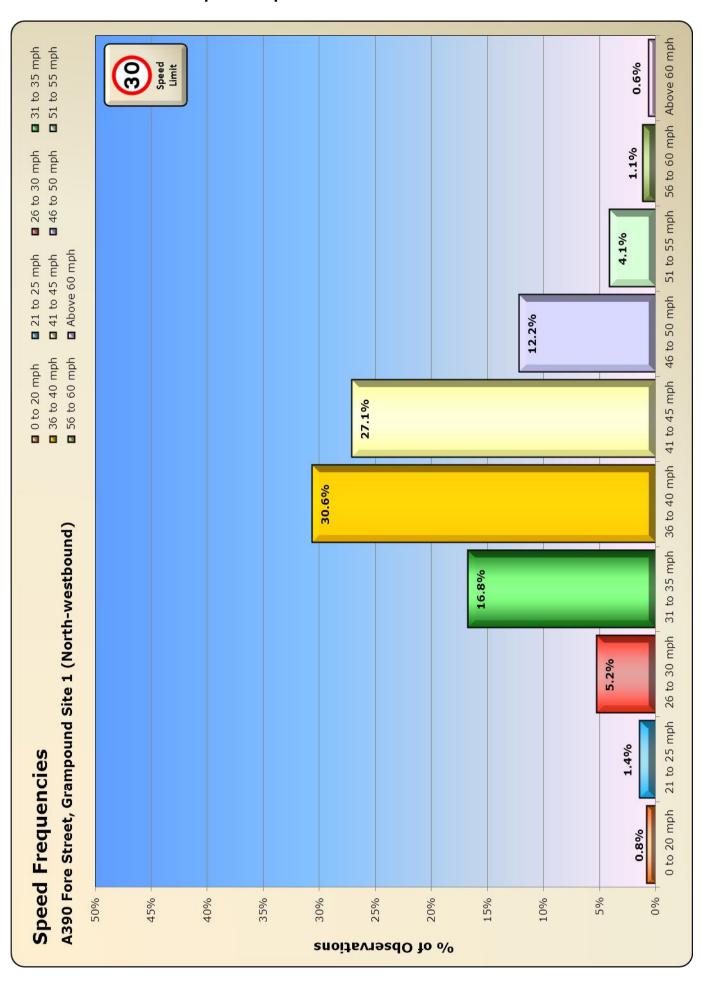
4.1.3. North-westbound Speed Limit Compliance by Day Chart.



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 |
| Wed 27/01/2016 | 30 | 61 | 210 | 648 | 1,128 | 895 | 377 | 118 | 37 | 18 | 3,522 |
| Thu 28/01/2016 | 19 | 91 | 323 | 1,070 | 1,960 | 1,636 | 730 | 222 | 59 | 28 | 6,138 |
| Fri 29/01/2016 | 26 | 98 | 392 | 1,009 | 1,777 | 1,555 | 708 | 224 | 59 | 29 | 5,877 |
| Sat 30/01/2016 | 68 | 60 | 252 | 835 | 1,447 | 1,311 | 606 | 230 | 71 | 33 | 4,913 |
| Sun 31/01/2016 | 6 | 27 | 137 | 504 | 980 | 939 | 505 | 185 | 56 | 34 | 3,373 |
| Mon 01/02/2016 | 19 | 85 | 267 | 899 | 1,709 | 1,522 | 638 | 245 | 64 | 40 | 5,488 |
| Tue 02/02/2016 | 62 | 91 | 287 | 950 | 1,837 | 1,679 | 723 | 236 | 50 | 37 | 5,952 |
| Wed 03/02/2016 | 63 | 20 | 102 | 383 | 677 | 632 | 292 | 90 | 33 | 18 | 2,310 |
| Total | 293 | 533 | 1,970 | 6,298 | 11,515 | 10,169 | 4,579 | 1,550 | 429 | 237 | 37,573 |
| % of Total | 0.8% | 1.4% | 5.2% | 16.8% | 30.6% | 27.1% | 12.2% | 4.1% | 1.1% | 0.6% | 100.0% |

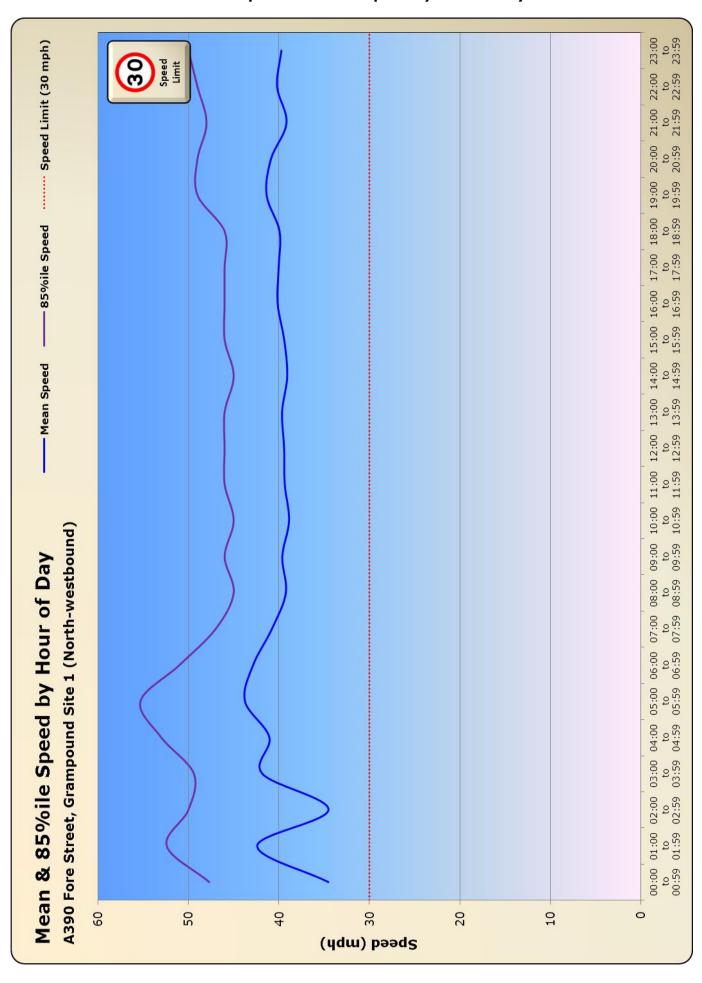
4.2.2. North-westbound Speed Frequencies Chart.



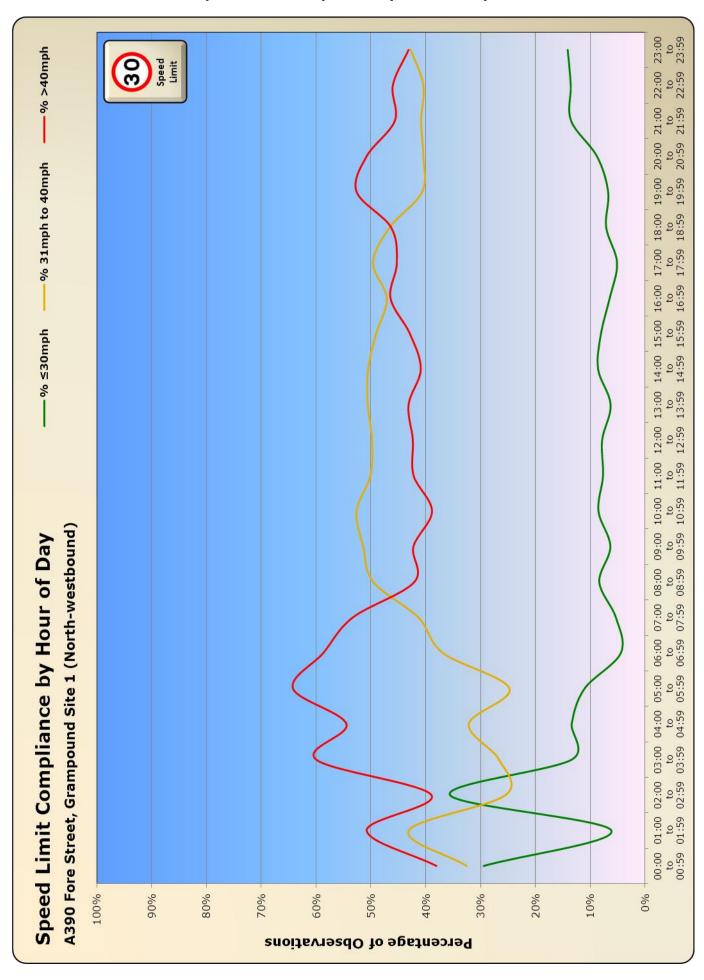
4.3.1. North-westbound Hour of Day Summary Table.

| Hour of Day | Mean Speed | 85%ile Speed | Standard Deviation | % ≤ 30 | % 31 mph to 40 mph | % >40 mph |
|----------------|---------------|-----------------|-----------------------|--------|-----------------------|-----------|
| 00:00 to 00:59 | 34.5 | 48 | 14.1 | 29.4% | 32.5% | 38.0% |
| 01:00 to 01:59 | 42.4 | 52 | 9.3 | 6.2% | 43.1% | 50.8% |
| 02:00 to 02:59 | 34.5 | 50 | 14.8 | 35.6% | 25.4% | 39.0% |
| 03:00 to 03:59 | 41.8 | 49 | 9.9 | 13.3% | 26.7% | 60.0% |
| 04:00 to 04:59 | 41.1 | 53 | 11.5 | 13.4% | 32.1% | 54.5% |
| 05:00 to 05:59 | 43.8 | 55 | 11.7 | 11.0% | 24.7% | 64.2% |
| 06:00 to 06:59 | 42.9 | 51 | 8.0 | 4.4% | 36.9% | 58.7% |
| 07:00 to 07:59 | 40.8 | 47 | 6.6 | 5.3% | 41.3% | 53.3% |
| 08:00 to 08:59 | 39.2 | 45 | 6.6 | 8.4% | 49.6% | 42.1% |
| 09:00 to 09:59 | 39.6 | 46 | 6.3 | 6.3% | 51.4% | 42.2% |
| 10:00 to 10:59 | 38.9 | 45 | 6.4 | 8.5% | 52.6% | 38.9% |
| 11:00 to 11:59 | 39.4 | 46 | 6.6 | 7.7% | 50.1% | 42.2% |
| 12:00 to 12:59 | 39.4 | 46 | 6.4 | 7.8% | 49.8% | 42.4% |
| 13:00 to 13:59 | 39.7 | 46 | 6.2 | 6.3% | 50.6% | 43.1% |
| 14:00 to 14:59 | 39.1 | 45 | 6.5 | 8.6% | 50.5% | 40.9% |
| 15:00 to 15:59 | 39.4 | 46 | 6.5 | 8.1% | 49.1% | 42.9% |
| 16:00 to 16:59 | 40.1 | 46 | 6.6 | 6.5% | 47.1% | 46.4% |
| 17:00 to 17:59 | 40.0 | 46 | 6.2 | 5.1% | 49.6% | 45.3% |
| 18:00 to 18:59 | 39.9 | 46 | 7.0 | 7.1% | 46.6% | 46.3% |
| 19:00 to 19:59 | 41.4 | 49 | 8.0 | 6.7% | 40.6% | 52.6% |
| 20:00 to 20:59 | 40.9 | 49 | 8.2 | 8.8% | 40.4% | 50.8% |
| 21:00 to 21:59 | 39.2 | 48 | 10.3 | 13.5% | 40.9% | 45.6% |
| 22:00 to 22:59 | 40.2 | 49 | 9.2 | 13.6% | 40.4% | 46.0% |
| 23:00 to 23:59 | 39.7 | 50 | 10.7 | 14.1% | 42.7% | 43.1% |

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

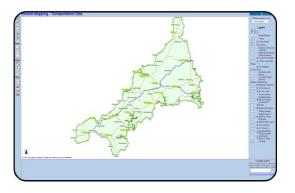






Speed Analysis

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

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