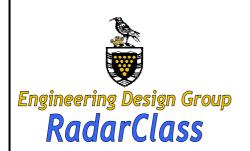


RadarClass

A390 Grampound Site 2 April 2013 Report 03/05/2013

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





Grampound Site 2 April 2013

Route №: A390

Column №: A008

Highways Region:

West

30

Speed

Limit

RadarClass Unit №:

RadarClass Unit 8

Direction(s) of Travel:

South-eastbound / North-westbound

OS Grid Reference:

193610 / 048285

Date of Deployment

16/04/2013

End of Operation

22/04/2013

Total Period of Operation

7 Days

Speed Statistics	South-eastbound	North-westbound		
Number of Observations:	32,973	32,555		
Mean Speed (mph):	26.3	27.1		
85%ile Speed (mph):	31.0	32.0		
Standard Deviation:	5.2	5.0		
% ≤30 mph	82.7	78.8		
% >40 mph	0.9	1.0		

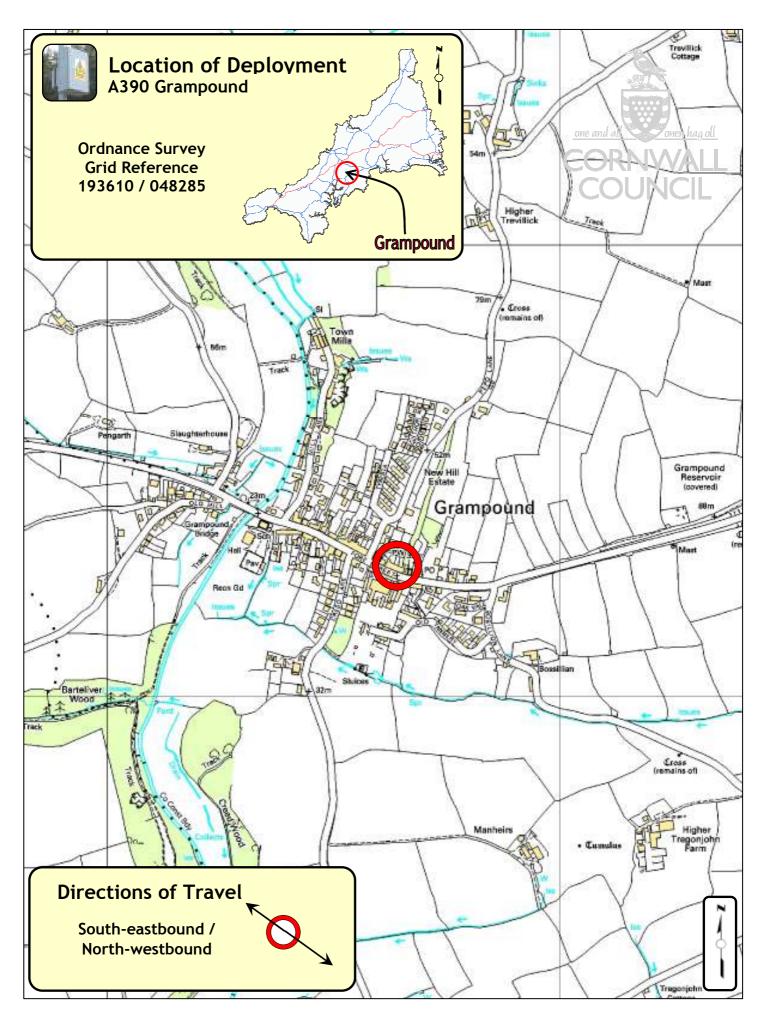
Comments:

Data Submitted by: Paul Taylor

Data Processed

by:

Liam Scott





RadarClass is a portable radar device that detects and records the speed of passing vehicles. The unit is housed in an unobtrusive rugged grey steel 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 mph: The percentage of vehicles travelling at speeds of 30 mph or below (i.e. the

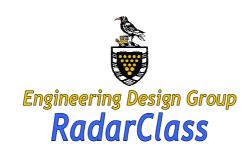
percentage of vehicles travelling at or within the 30 mph speed limit).

% >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).

Print Date: 03/06/2013



South-eastbound

Detailed Statistics

Print Date: 03/06/2013

Daily Summary Table

Southeastbound

A390 Grampound Site 2 April 2013

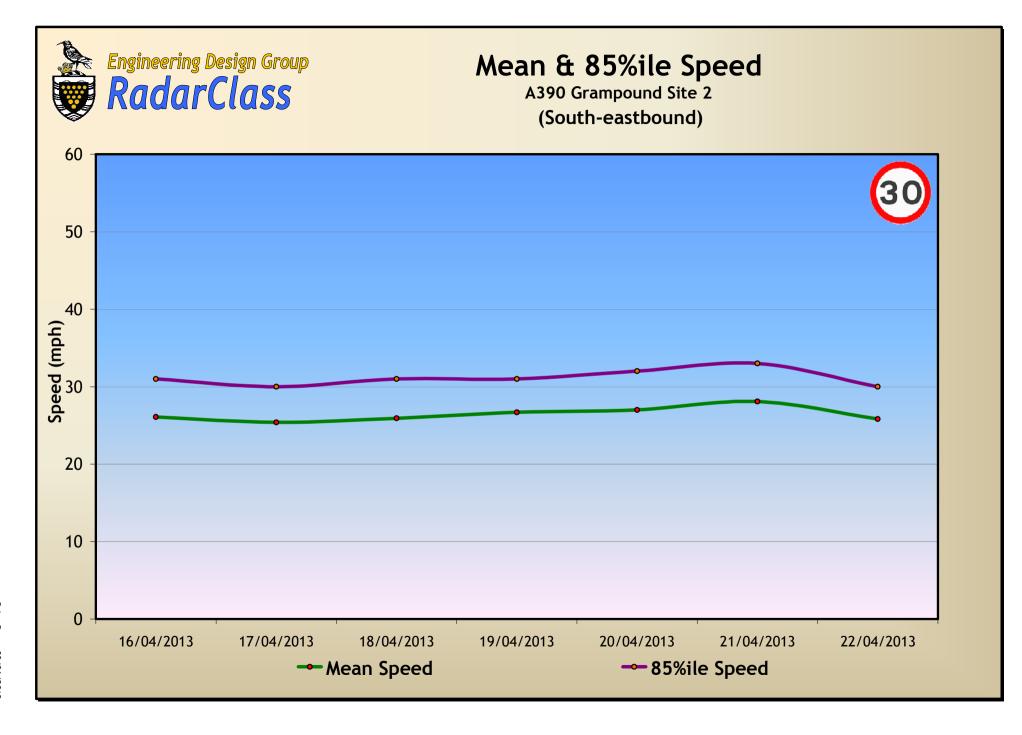


Speed Limit

Part 1 of 1

Date	Mean Speed	85%ile Speed	Standard Deviation	Percentage of Vehicles ≤30mph	Percentage of Vehicles >40mph
16/04/2013	26.1	31.0	5.0	84.1	0.7
17/04/2013	25.4	30.0	5.3	86.5	0.6
18/04/2013	25.9	31.0	5.3	84.3	0.7
19/04/2013	26.7	31.0	4.9	82.1	0.9
20/04/2013	27.0	32.0	5.4	79.0	1.4
21/04/2013	28.1	33.0	5.0	74.4	2.1
22/04/2013	25.8	30.0	4.8	86.3	0.3

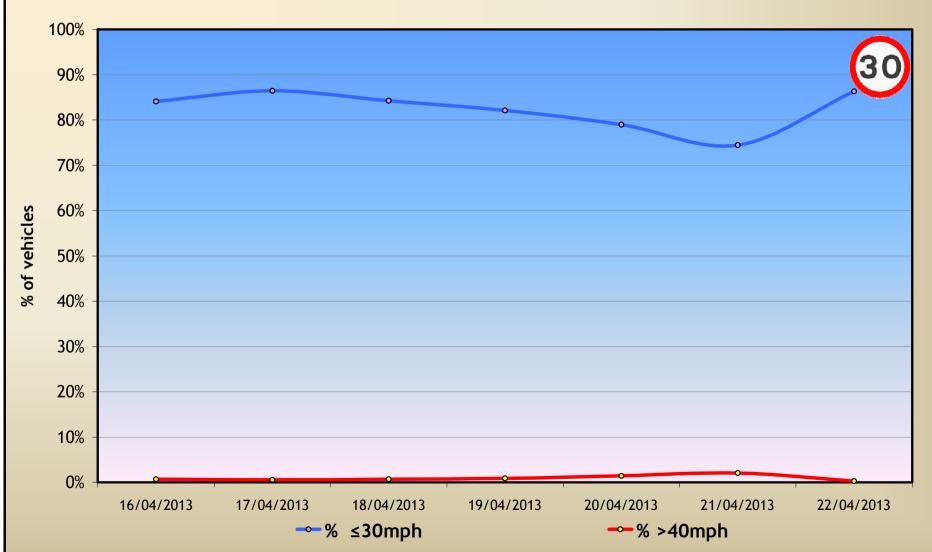
Print Date: 03/06/2013





Percentage of Vehicles ≤30mph & >40mph A390 Grampound Site 2

(South-eastbound)



Southeastbound

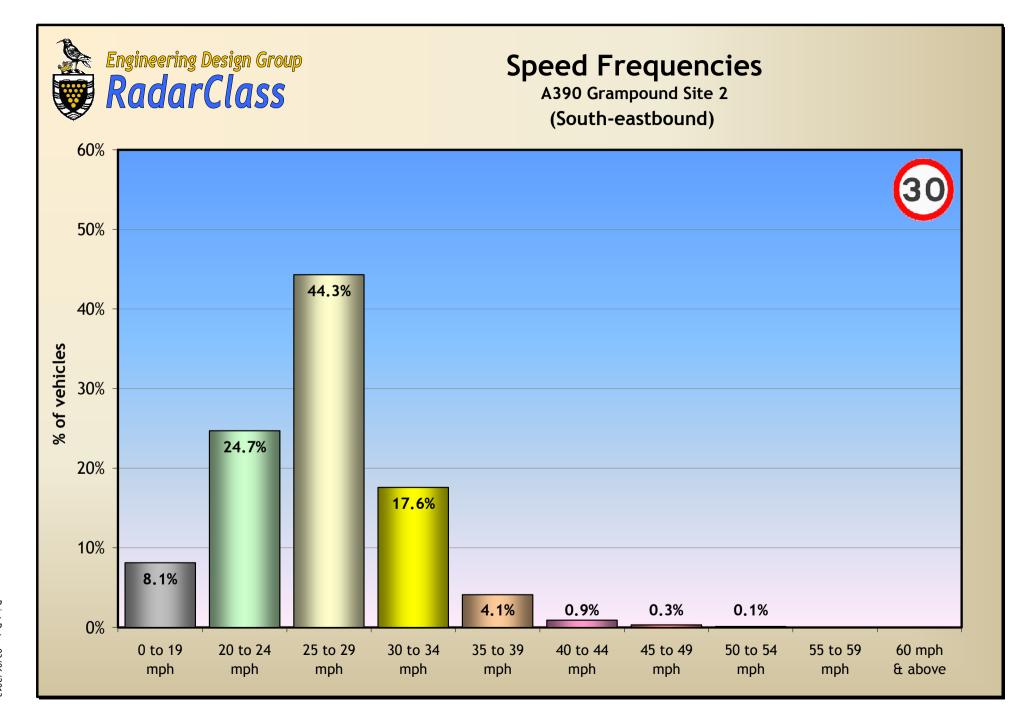
Speed Frequencies



A390 Grampound Site 2 April 2013

Speed Limit

Speed Class	Percentage of Observations
0 mph to 19 mph	8.1
20 mph to 24 mph	24.7
25 mph to 29 mph	44.3
30 mph to 34 mph	17.6
35 mph to 39 mph	4.1
40 mph to 44 mph	0.9
45 mph to 49 mph	0.3
50 mph to 54 mph	0.1
55 mph to 59 mph	0.0
60 mph & above	0.0
Total	100.0



Daily Speed Frequencies

Southeastbound

A390 Grampound Site 2 April 2013



Speed Limit

Part 1 of 1

	Number of Observations										
Date	0 to 19 mph	20 to 24 mph	25 to 29 mph	30 to 34 mph	35 to 39 mph	40 to 44 mph	45 to 49 mph	50 to 54 mph	55 to 59 mph	60 mph & above	Total
16/04/2013	250	838	1,356	543	104	21	5	0	0	0	3,117
17/04/2013	669	1,655	2,338	793	195	37	10	2	0	0	5,699
18/04/2013	571	1,449	2,445	965	195	51	12	0	0	0	5,688
19/04/2013	340	1,305	2,585	1,016	235	43	18	5	0	0	5,547
20/04/2013	324	992	2,088	894	248	61	19	5	3	1	4,635
21/04/2013	113	606	1,696	847	225	78	17	5	0	0	3,587
22/04/2013	411	1,297	2,095	731	145	14	6	1	0	0	4,700
Total	2,678	8,142	14,603	5,789	1,347	305	87	18	3	1	32,973

Print Date: 03/06/2013

Southeastbound

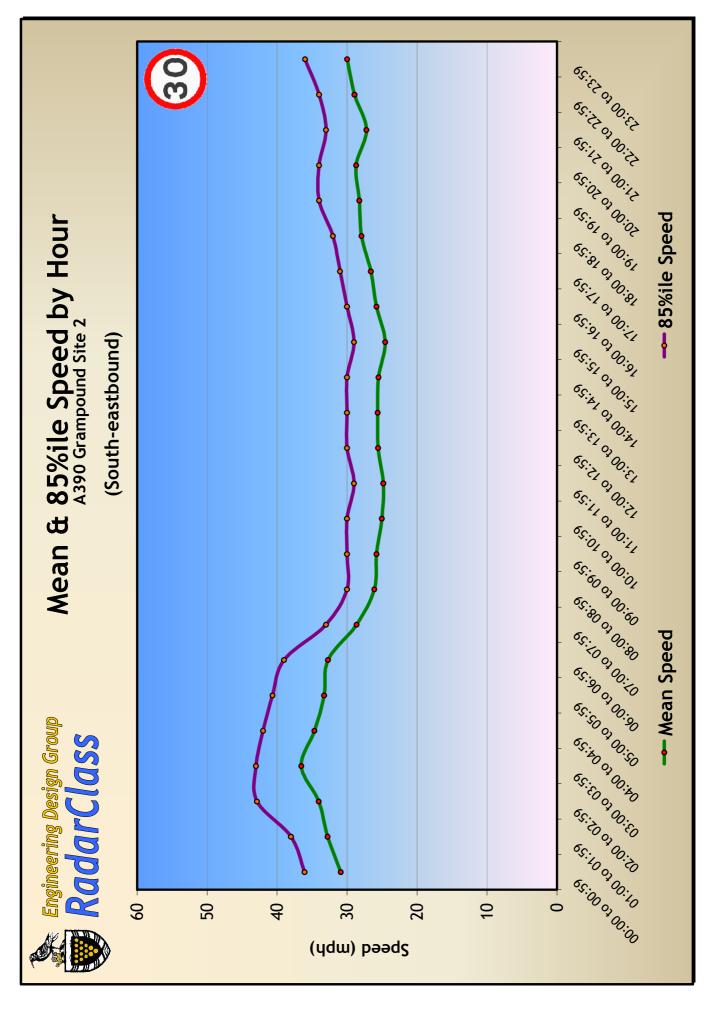
Hour of Day Summary Table

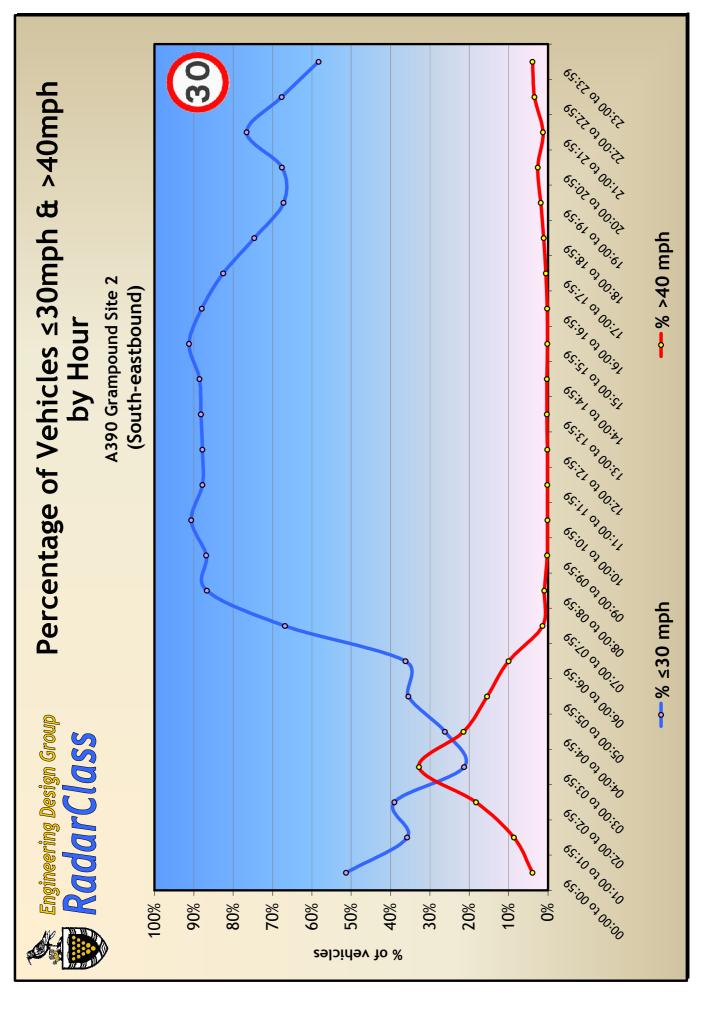


A390 Grampound Site 2 April 2013

Speed . Limit

Hour of Day	Mean Speed	85%ile Speed	St. Dev	% ≤30 mph	% >40 mph
00:00 to 00:59	30.9	36.1	5.6	51.3	3.9
01:00 to 01:59	32.8	38.0	5.4	35.8	8.6
02:00 to 02:59	34.0	42.9	7.4	39.0	18.3
03:00 to 03:59	36.5	43.0	7.4	21.3	32.8
04:00 to 04:59	34.6	42.0	6.8	26.2	21.4
05:00 to 05:59	33.3	40.7	7.0	35.5	15.5
06:00 to 06:59	32.7	39.0	6.4	36.2	10.0
07:00 to 07:59	28.6	33.0	5.2	66.8	1.3
08:00 to 08:59	26.1	30.0	4.9	86.7	0.9
09:00 to 09:59	25.8	30.0	4.7	86.9	0.2
10:00 to 10:59	25.0	30.0	4.9	89.6	0.2
11:00 to 11:59	24.8	29.0	4.7	90.7	0.1
12:00 to 12:59	25.6	30.0	4.7	87.8	0.1
13:00 to 13:59	25.6	30.0	4.6	88.2	0.3
14:00 to 14:59	25.5	30.0	4.7	88.5	0.3
15:00 to 15:59	24.5	29.0	4.9	91.2	0.1
16:00 to 16:59	25.8	30.0	4.5	88.0	0.2
17:00 to 17:59	26.6	31.0	4.7	82.5	0.5
18:00 to 18:59	27.9	32.0	4.8	74.6	1.1
19:00 to 19:59	28.2	34.0	5.8	67.2	1.8
20:00 to 20:59	28.7	34.0	5.5	67.6	2.6
21:00 to 21:59	27.2	33.0	5.2	76.6	1.2
22:00 to 22:59	28.9	34.0	5.5	67.7	3.4
23:00 to 23:59	30.0	36.0	5.8	58.3	3.9







North-westbound

Detailed Statistics

Daily Summary Table

Northwestbound

A390 Grampound Site 2 April 2013

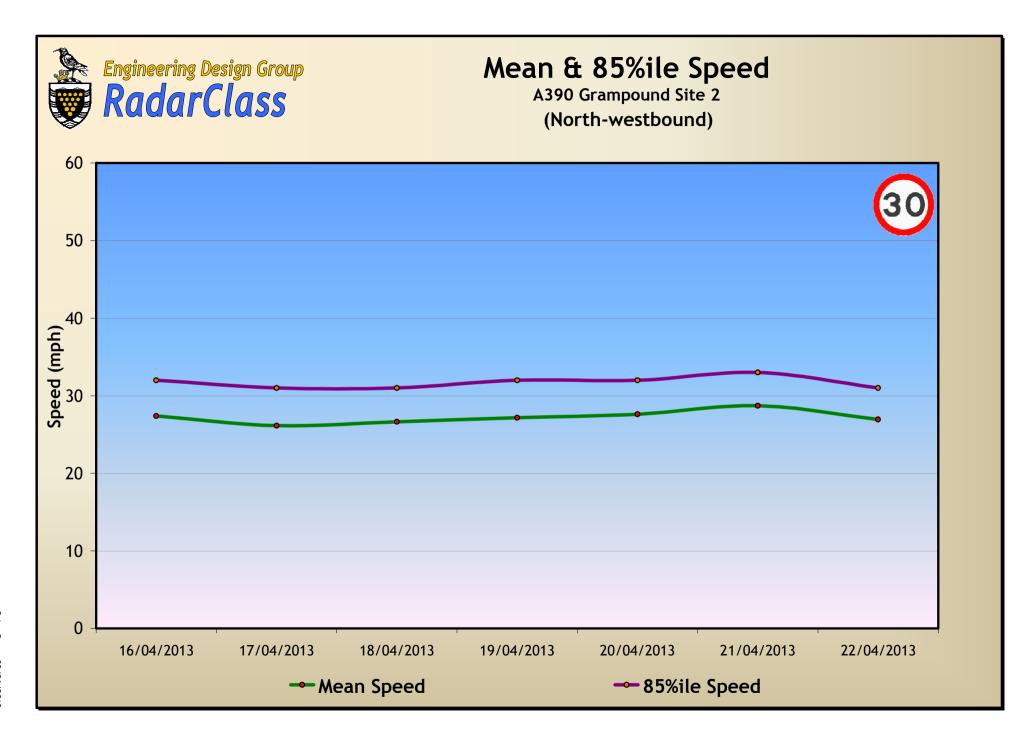


Speed Limit

Part 1 of 1

Date	Mean Speed	85%ile Speed	Standard Deviation	Percentage of Vehicles ≤30mph	Percentage of Vehicles >40mph	
16/04/2013	27.4	32.0	4.9	78.3	0.9	
17/04/2013	26.1	31.0	5.1	83.5	0.8	
18/04/2013	26.6	31.0	5.0	80.3	0.7	
19/04/2013	27.2	32.0	5.0	78.4	0.9	
20/04/2013	27.6	32.0	5.1	75.6	1.2	
21/04/2013	28.7	33.0	4.9	69.1	1.9	
22/04/2013	26.9	31.0	4.5	82.5	0.6	

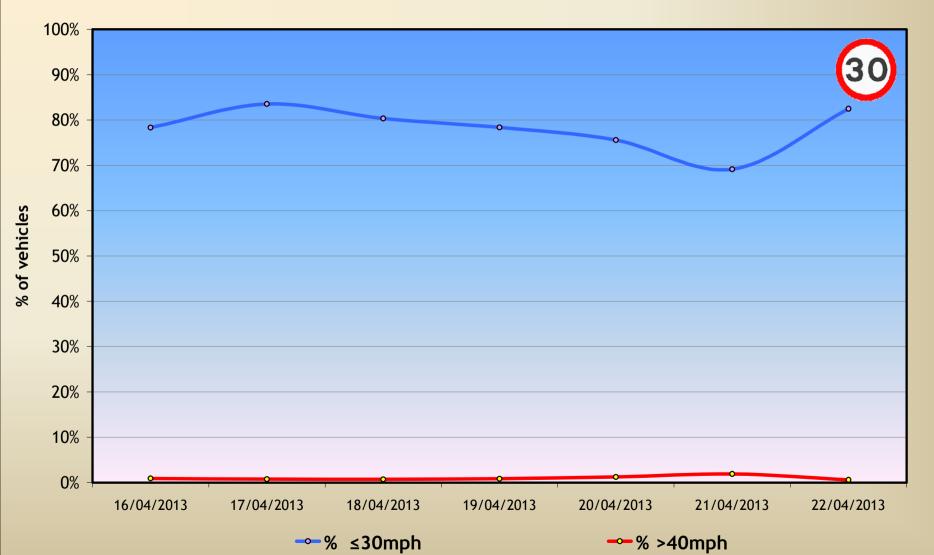
Print Date: 03/06/2013





Percentage of Vehicles ≤30mph & >40mph

A390 Grampound Site 2 (North-westbound)



Northwestbound

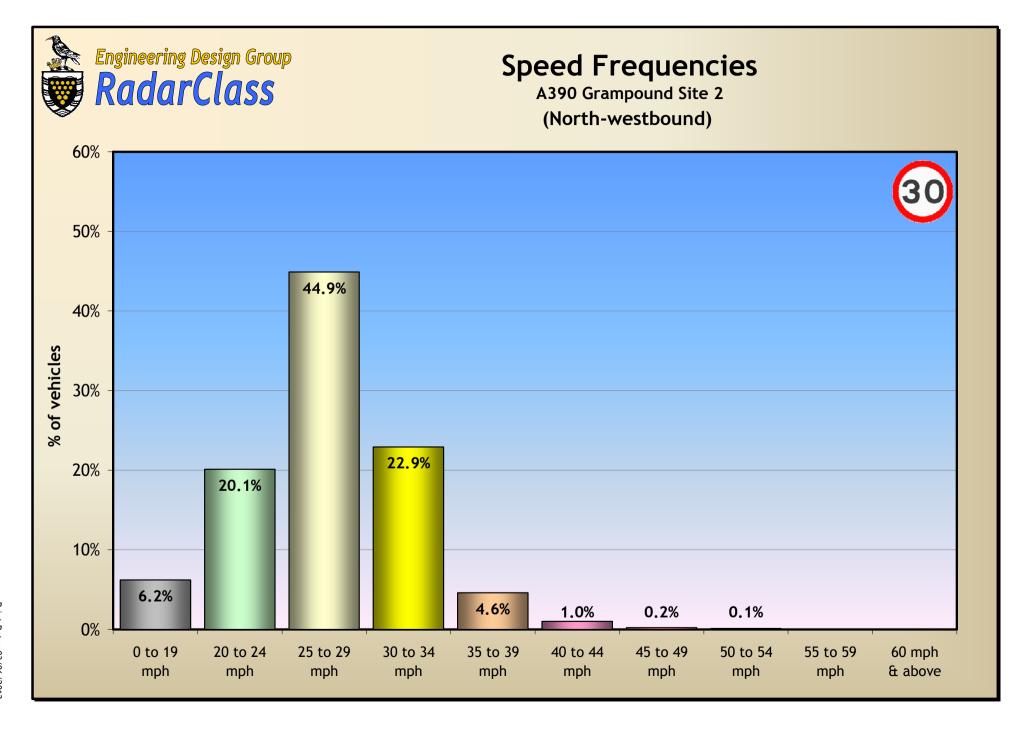
Speed Frequencies



A390 Grampound Site 2 April 2013

Speed Limit

Speed Class	Percentage of Observations
0 mph to 19 mph	6.2
20 mph to 24 mph	20.1
25 mph to 29 mph	44.9
30 mph to 34 mph	22.9
35 mph to 39 mph	4.6
40 mph to 44 mph	1.0
45 mph to 49 mph	0.2
50 mph to 54 mph	0.1
55 mph to 59 mph	0.0
60 mph & above	0.0
Total	100.0



Daily Speed Frequencies

Northwestbound

A390 Grampound Site 2 April 2013



Speed Limit

Part 1 of 1

		Number of Observations									
Date	0 to 19 mph	20 to 24 mph	25 to 29 mph	30 to 34 mph	35 to 39 mph	40 to 44 mph	45 to 49 mph	50 to 54 mph	55 to 59 mph	60 mph & above	Total
16/04/2013	139	399	1,124	605	116	20	2	1	1	0	2,407
17/04/2013	497	1,440	2,459	1,029	206	36	16	0	1	0	5,684
18/04/2013	441	1,349	2,465	1,235	234	46	10	2	1	0	5,783
19/04/2013	326	1,151	2,469	1,310	260	63	8	2	1	0	5,590
20/04/2013	267	795	2,110	1,144	276	51	15	11	1	0	4,670
21/04/2013	106	436	1,600	1,092	275	61	18	2	1	0	3,591
22/04/2013	241	969	2,389	1,052	142	33	2	1	1	0	4,830
Total	2,017	6,539	14,616	7,467	1,509	310	71	19	7	0	32,555

Print Date: 03/06/2013

Northwestbound

Hour of Day Summary Table



A390 Grampound Site 2 April 2013

Speed Limit

Hour of Day	Mean Speed	85%ile Speed	St. Dev	% ≤30 mph	% >40 mph
00:00 to 00:59	33.7	39.0	6.6	33.3	12.8
01:00 to 01:59	32.4	37.0	5.6	40.9	10.2
02:00 to 02:59	33.3	40.6	7.1	39.1	15.6
03:00 to 03:59	34.5	43.0	9.7	27.7	23.4
04:00 to 04:59	36.5	44.6	8.5	28.1	29.8
05:00 to 05:59	35.3	41.5	6.7	27.8	19.0
06:00 to 06:59	33.2	39.0	5.4	30.9	9.6
07:00 to 07:59	28.9	33.0	4.8	65.1	1.4
08:00 to 08:59	26.1	30.0	4.9	85.1	0.5
09:00 to 09:59	27.0	31.0	4.4	81.2	0.0
10:00 to 10:59	25.8	30.0	4.3	88.9	0.2
11:00 to 11:59	25.3	29.0	4.4	90.8	0.0
12:00 to 12:59	26.2	30.0	4.6	87.3	0.2
13:00 to 13:59	26.4	30.0	4.3	85.8	0.1
14:00 to 14:59	25.9	30.0	4.5	87.4	0.2
15:00 to 15:59	25.1	29.0	4.5	90.0	0.1
16:00 to 16:59	26.7	31.0	4.3	83.3	0.2
17:00 to 17:59	27.3	31.0	4.6	77.9	0.3
18:00 to 18:59	29.0	33.0	4.5	64.9	0.8
19:00 to 19:59	29.8	34.0	4.8	57.4	0.9
20:00 to 20:59	29.5	34.7	5.0	63.5	1.9
21:00 to 21:59	29.2	34.0	5.4	63.7	2.8
22:00 to 22:59	30.6	36.0	5.3	54.3	5.4
23:00 to 23:59	31.0	37.1	6.6	46.9	6.2

