

SpeedVISOR

**B3267 North Road, St Teath
(southbound) May 2009**

GIS Summary

Prepared by
Highway Services
Highway Design Group

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Issue and Revision Record



Revision	Date	Originator	Purpose of Issue/Nature of Change
0	17/06/2009	S. Ball	Original

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North Road, St Teath (southbound) May 2009

Road No: B3267		SpeedVISOR Unit No: Unit 16
Column No: Post		Direction of Travel: Southbound
Region: East		OS Grid Reference: 206259 / 081029

Summary Table	 Monitoring No Display of Speed Limit	 Display With Display of Speed Limit
Start:	12/05/2009	20/05/2009
Finish:	19/05/2009	08/06/2009
Duration:	8 Days	20 Days
No of Observations:	4,743	12,886

Speed Statistics	 Monitoring	 Display	Difference Monitoring to Display
Mean Speed (mph):	35.2	33.3	-1.9
85%ile Speed (mph):	43.0	40.0	-3.0
% ≤30 mph:	21.0	23.3	+2.3
% >40 mph:	18.2	12.7	-5.5

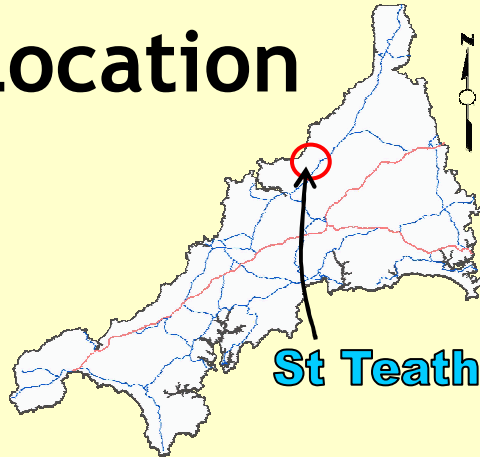
Comments:	
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Data Submitted by: Lee Hibberd	Data Processed by: Stuart Gallaway
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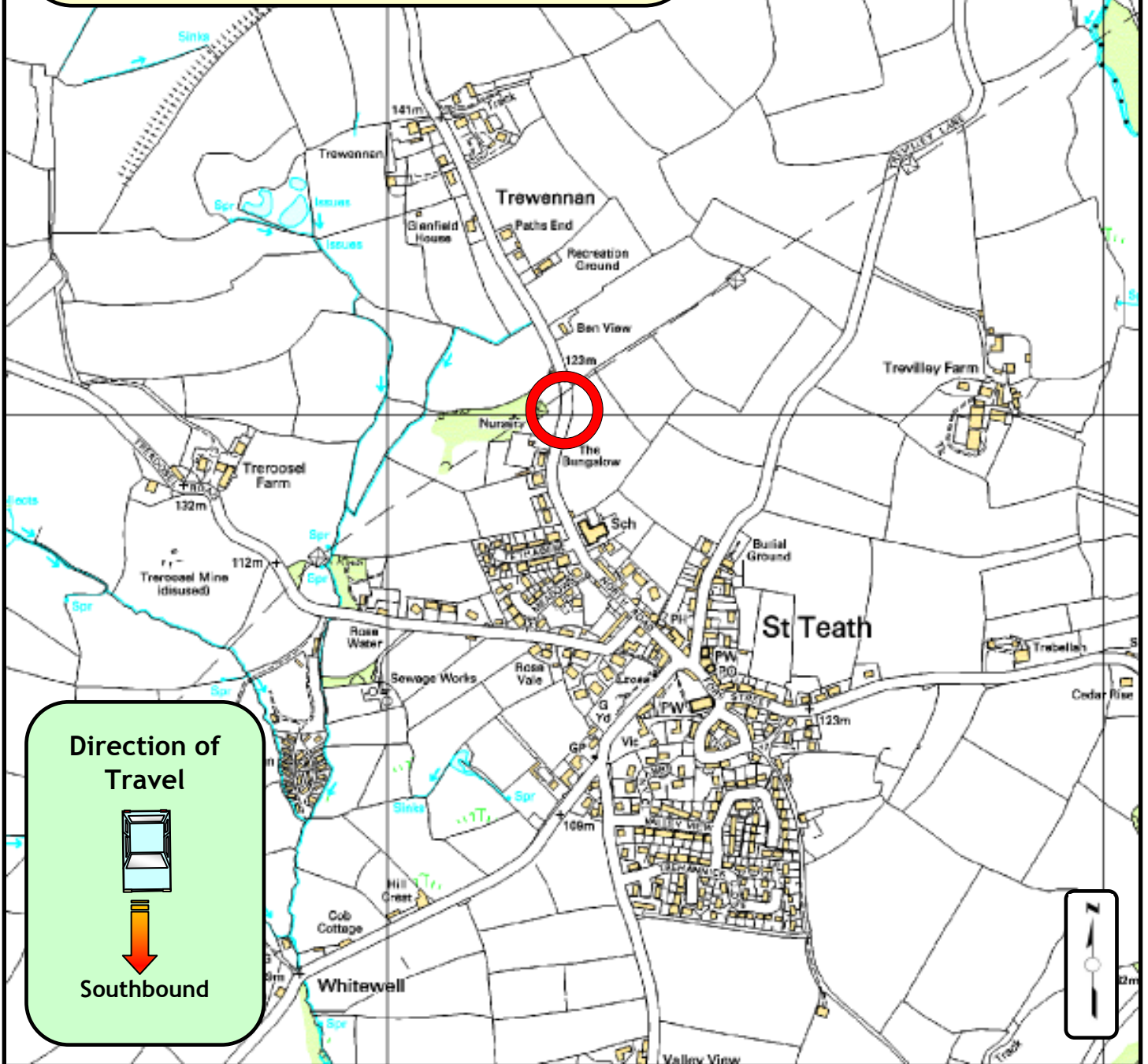


Location

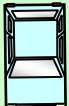
B3267
North Road
St Teath
Ordnance Survey
Grid Reference
206259 / 081029



St Teath



Direction of Travel



Southbound



Highway Design Group

SpeedVISOR

Glossary of Terms & Abbreviations

SpeedVISOR is a vehicle activated sign that detects and records the speed of passing vehicles. The front of the unit has the words “Speed Check” beneath bright light emitting diodes (LED) to display the speed limit to motorists contravening the prescribed local limit.

The principal role of the unit is to raise awareness of speeding as anti-social behaviour. By displaying the speed limit to speeding motorists, the sign will draw attention to the speed at which they are travelling and remind them to moderate their speed to an appropriate level below the speed limit



Monitoring
No Display of Speed Limit

The phase of operation at which the LED display of the SpeedVISOR Sign is disabled and the “Speed Check” text on the front of the unit covered-up. In this phase, the unit only monitors and records the speed of passing traffic.



Display
With Display of Speed Limit

The phase of operation at which the “Speed Check” text on the front of the SpeedVISOR unit is uncovered and the LED display activated. In this phase, the SpeedVISOR unit monitors and records the speed of passing traffic; any vehicles passing at speeds of greater than 10% in excess of the speed limit activate the display on the front of unit and the LED sign flashes the designated speed limit to the driver of the passing vehicle.

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 is unable to distinguish individual vehicles.

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.

% ≤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).



Monitoring
No Display of Speed Limit

Daily Summary Table

B3267 North Road, St Teath
(southbound) May 2009

Part 1 of 1

Date	Mean Speed	85%ile Speed	Percentage of Vehicles ≤30 mph	Percentage of Vehicles >40 mph
12/05/2009	34.4	43.0	23.7	17.8
13/05/2009	34.5	41.0	27.6	15.7
14/05/2009	35.0	43.0	23.5	17.6
15/05/2009	34.8	43.0	21.2	20.7
16/05/2009	36.3	41.5	14.7	15.9
17/05/2009	35.8	43.0	20.3	19.9
18/05/2009	36.1	43.0	19.4	19.9
19/05/2009	35.3	42.0	16.7	18.6



Display
With Display of Speed Limit

Daily Summary Table

B3267 North Road, St Teath
(southbound) May 2009

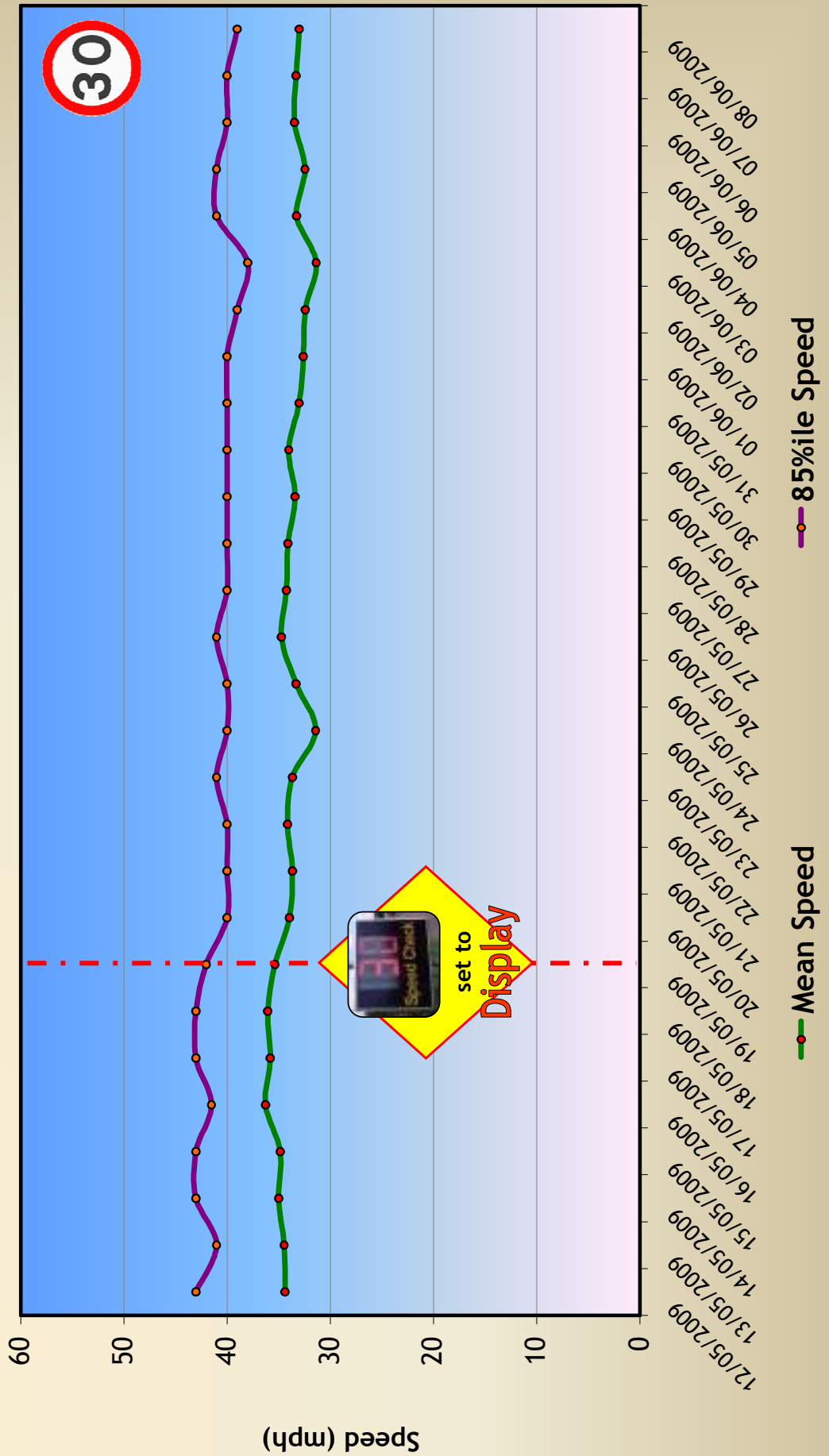
Part 1 of 1

Date	Mean Speed	85%ile Speed	Percentage of Vehicles ≤30 mph	Percentage of Vehicles >40 mph
20/05/2009	34.0	40.0	20.3	12.4
21/05/2009	33.7	40.0	22.6	14.8
22/05/2009	34.1	40.0	20.3	13.7
23/05/2009	33.7	41.0	21.1	15.7
24/05/2009	31.4	40.0	28.9	13.5
25/05/2009	33.3	40.0	21.5	10.5
26/05/2009	34.7	41.0	16.6	15.5
27/05/2009	34.2	40.0	17.3	10.6
28/05/2009	34.1	40.0	20.8	13.1
29/05/2009	33.4	40.0	21.3	11.4
30/05/2009	34.0	40.0	20.8	14.1
31/05/2009	33.0	40.0	28.2	13.4
01/06/2009	32.6	40.0	25.0	12.1
02/06/2009	32.4	39.0	27.5	8.6
03/06/2009	31.4	38.0	31.2	8.7
04/06/2009	33.3	41.0	23.2	16.2
05/06/2009	32.4	41.0	27.2	15.6
06/06/2009	33.5	40.0	21.9	13.5
07/06/2009	33.3	40.0	27.2	10.8
08/06/2009	33.0	39.0	24.5	10.0



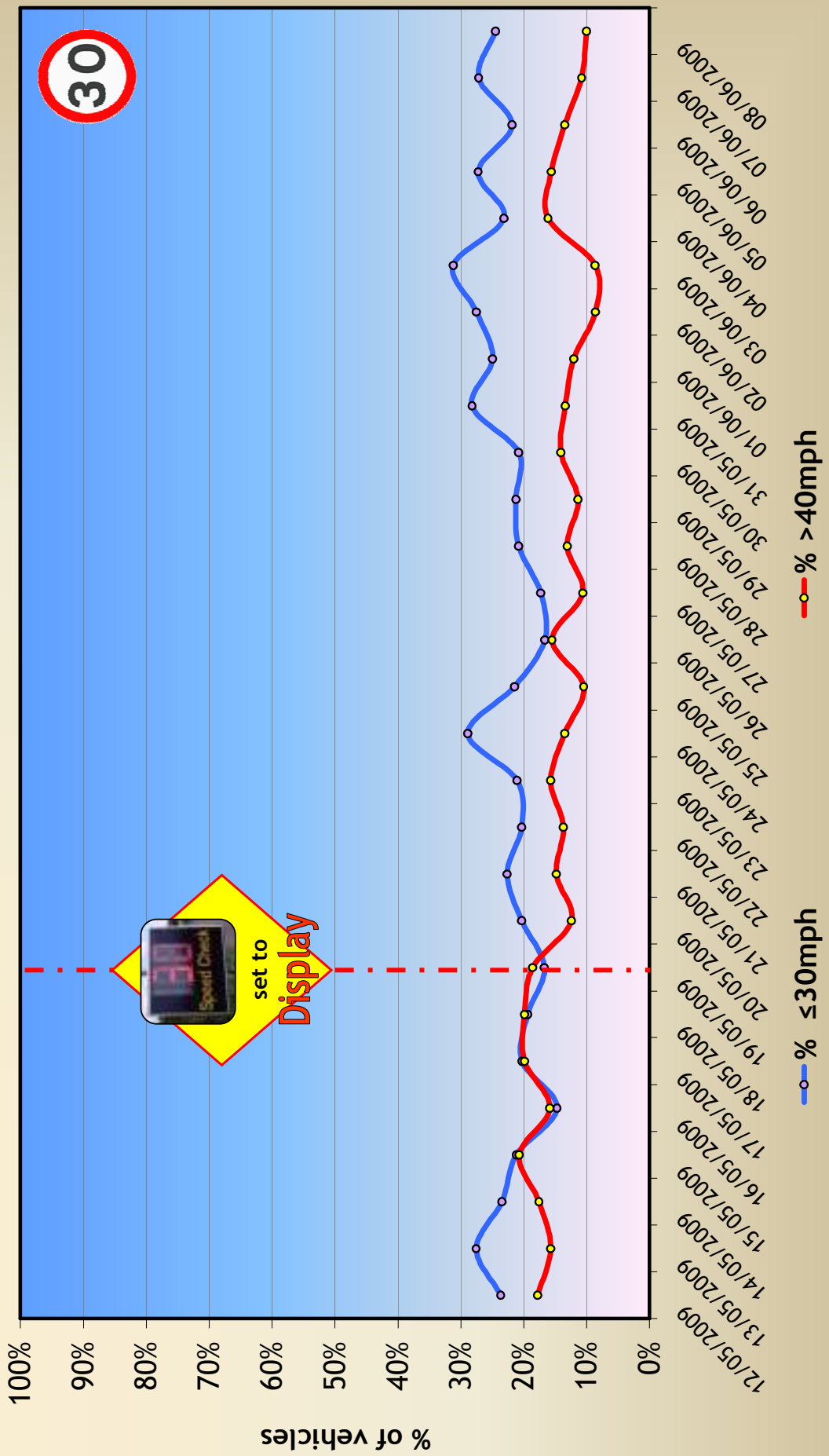
Mean & 85%ile Speed

B3267 North Road, St Teath



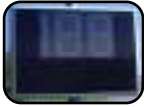

Percentage of Vehicles ≤30mph & >40mph

B3267 North Road, St Teath



Speed Frequencies

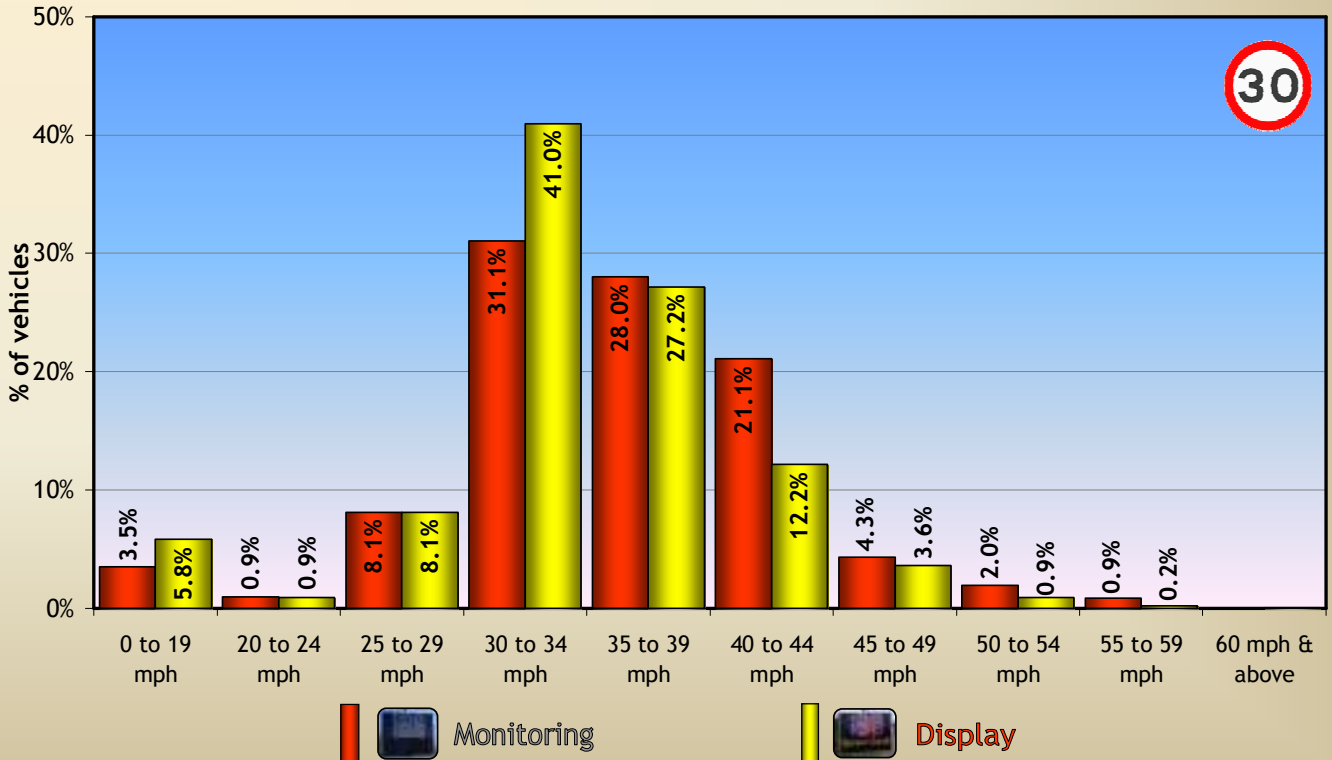
B3267 North Road, St Teath (southbound) May 2009

Speed Class	Percentage of Observations		
	 Monitoring No Display of Speed Limit	 Display With Display of Speed Limit	Change in Speed Frequencies Monitoring to Display
0 mph to 19 mph	3.5	5.8	+2.3
20 mph to 24 mph	0.9	0.9	0.0
25 mph to 29 mph	8.1	8.1	0.0
30 mph to 34 mph	31.1	41.0	+9.9
35 mph to 39 mph	28.0	27.2	-0.8
40 mph to 44 mph	21.1	12.2	-8.9
45 mph to 49 mph	4.3	3.6	-0.7
50 mph to 54 mph	2.0	0.9	-1.1
55 mph to 59 mph	0.9	0.2	-0.7
60 mph & above	0.0	0.0	0.0
Total	100.0	100.0	-



Speed Frequencies

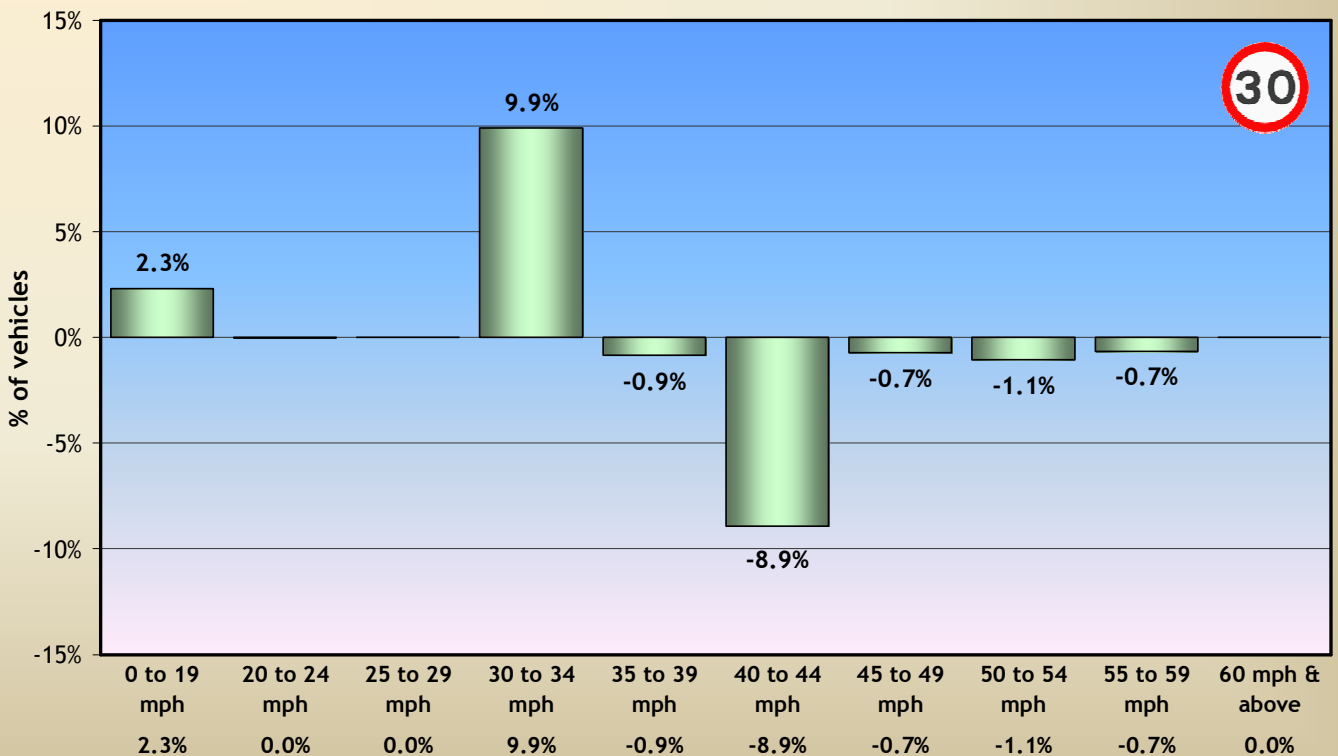
B3267 North Road, St Teath



Speed Frequencies

Change in Speed Frequencies from Monitoring to Display Phase

B3267 North Road, St Teath





Monitoring
No Display of Speed Limit

Daily Speed Frequencies

B3267 North Road, St Teath (southbound) May 2009

Part 1 of 1

Date	Number of Observations										
	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
12/05/2009	43	6	39	151	154	104	28	16	4	0	545
13/05/2009	22	14	83	223	174	121	21	10	7	0	675
14/05/2009	26	4	54	212	182	135	37	11	4	0	665
15/05/2009	37	5	43	178	159	141	23	13	5	0	604
16/05/2009	4	1	40	186	202	136	26	12	4	0	611
17/05/2009	14	6	40	135	132	118	22	9	6	1	483
18/05/2009	13	5	43	166	161	131	28	13	8	0	568
19/05/2009	8	4	43	223	165	115	21	9	4	0	592
Total	167	45	385	1,474	1,329	1,001	206	93	42	1	4,743



Daily Speed Frequencies

Display

B3267 North Road, St Teath (southbound) May 2009

With Display of Speed Limit

Part 1 of 1

Date	Number of Observations										Total
	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	
20/05/2009	20	11	51	289	194	87	26	5	1	0	684
21/05/2009	37	7	50	288	212	98	30	5	2	0	729
22/05/2009	18	7	65	304	210	85	32	6	1	1	729
23/05/2009	40	6	53	259	200	101	22	9	2	1	693
24/05/2009	84	11	40	230	168	73	31	5	2	0	644
25/05/2009	36	5	40	229	189	72	15	6	0	0	592
26/05/2009	12	5	46	287	208	103	36	5	1	0	703
27/05/2009	12	2	46	267	207	65	26	5	0	0	630
28/05/2009	15	9	42	256	168	80	20	4	1	1	596
29/05/2009	35	9	34	257	168	75	21	7	1	0	607
30/05/2009	24	2	54	277	183	76	26	7	4	0	653
31/05/2009	28	7	74	190	122	70	17	4	2	0	514
01/06/2009	48	5	55	259	158	69	16	11	0	0	621
02/06/2009	54	8	73	328	203	75	18	5	2	0	766
03/06/2009	71	6	83	322	155	67	20	4	0	0	728
04/06/2009	43	4	45	259	145	82	26	4	4	1	613
05/06/2009	84	5	49	258	183	100	31	9	4	0	723
06/06/2009	32	4	39	224	134	65	18	7	2	1	526
07/06/2009	18	4	49	157	115	58	13	2	0	0	416
Total	751	121	1,048	5,280	3,500	1,568	466	117	30	5	12,886



Monitoring
No Display of Speed Limit

Hour of Day Summary Table

B3267 North Road, St Teath (southbound) May 2009

Hour of Day	Mean Speed	85%ile Speed	Percentage of Vehicles ≤30 mph	Percentage of Vehicles >40 mph
00:00 to 00:59	38.6	44.2	0.0	17.6
01:00 to 01:59	41.6	50.4	0.0	28.6
02:00 to 02:59	21.3	48.3	57.9	10.5
03:00 to 03:59	29.6	48.1	21.4	28.6
04:00 to 04:59	34.8	43.3	21.1	10.5
05:00 to 05:59	36.7	47.7	17.3	28.8
06:00 to 06:59	37.4	44.0	11.4	23.5
07:00 to 07:59	37.2	44.0	13.6	24.2
08:00 to 08:59	36.2	44.0	19.5	21.9
09:00 to 09:59	34.3	40.0	24.4	9.6
10:00 to 10:59	35.0	40.0	21.2	12.0
11:00 to 11:59	34.9	40.5	23.5	14.8
12:00 to 12:59	34.9	40.0	23.9	14.6
13:00 to 13:59	33.4	40.0	20.9	13.0
14:00 to 14:59	33.4	40.0	21.0	13.7
15:00 to 15:59	35.0	41.0	23.3	16.1
16:00 to 16:59	35.1	43.0	18.7	19.1
17:00 to 17:59	35.9	41.0	13.8	16.4
18:00 to 18:59	35.9	44.0	18.0	18.8
19:00 to 19:59	35.6	44.0	23.7	20.4
20:00 to 20:59	35.7	44.0	25.4	21.5
21:00 to 21:59	35.2	44.0	24.5	24.5
22:00 to 22:59	36.5	44.0	15.5	25.4
23:00 to 23:59	37.7	46.0	18.8	46.9



Display
With Display of Speed Limit

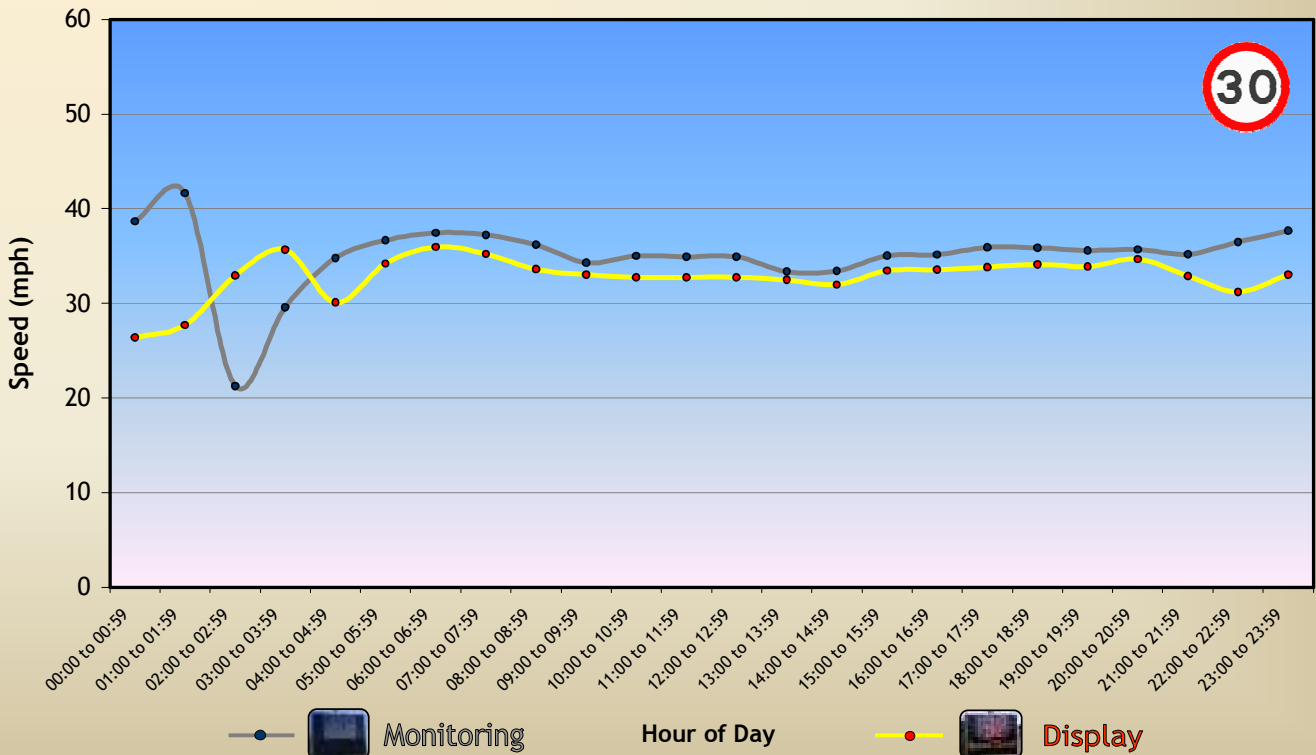
Hour of Day Summary Table

B3267 North Road, St Teath (southbound) May 2009

Hour of Day	Mean Speed	85%ile Speed	Percentage of Vehicles ≤30 mph	Percentage of Vehicles >40 mph
00:00 to 00:59	26.4	41.0	44.6	14.9
01:00 to 01:59	27.7	46.0	43.5	21.7
02:00 to 02:59	32.9	46.0	26.7	20.0
03:00 to 03:59	35.7	46.7	23.3	36.7
04:00 to 04:59	30.1	41.0	40.3	14.5
05:00 to 05:59	34.2	42.0	18.3	21.8
06:00 to 06:59	35.9	43.0	12.4	24.1
07:00 to 07:59	35.2	41.0	15.1	16.0
08:00 to 08:59	33.6	40.0	24.7	11.4
09:00 to 09:59	33.0	39.0	22.1	8.9
10:00 to 10:59	32.7	38.0	25.6	7.7
11:00 to 11:59	32.7	38.0	25.7	8.7
12:00 to 12:59	32.7	39.0	23.7	10.9
13:00 to 13:59	32.5	39.0	24.9	11.0
14:00 to 14:59	32.0	39.0	28.2	9.5
15:00 to 15:59	33.4	40.0	20.2	11.1
16:00 to 16:59	33.6	40.0	22.2	12.1
17:00 to 17:59	33.8	40.0	22.1	14.3
18:00 to 18:59	34.1	40.0	18.8	12.6
19:00 to 19:59	33.9	40.0	21.7	13.9
20:00 to 20:59	34.7	43.0	20.8	21.6
21:00 to 21:59	32.9	39.0	25.2	11.9
22:00 to 22:59	31.2	41.0	34.2	15.8
23:00 to 23:59	33.0	43.0	27.3	30.1

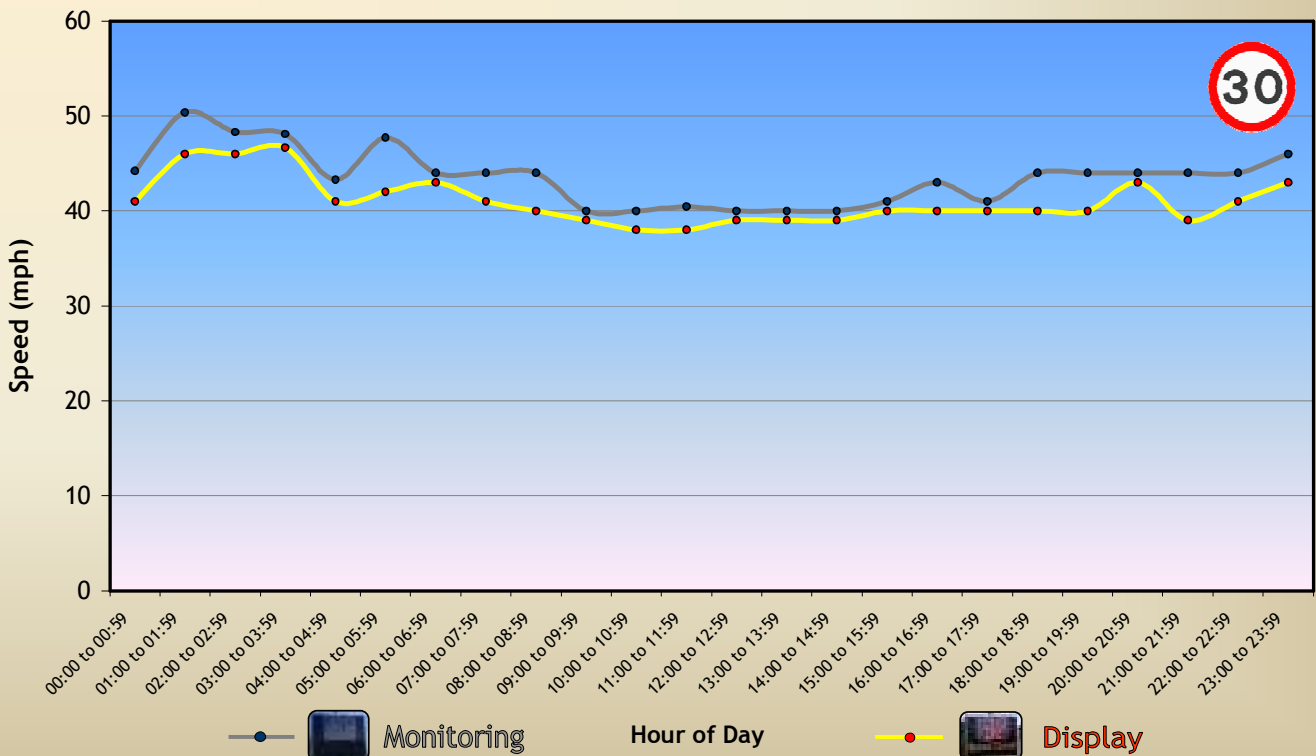
Mean Speed by Hour

B3267 North Road, St Teath



85%ile Speed by Hour

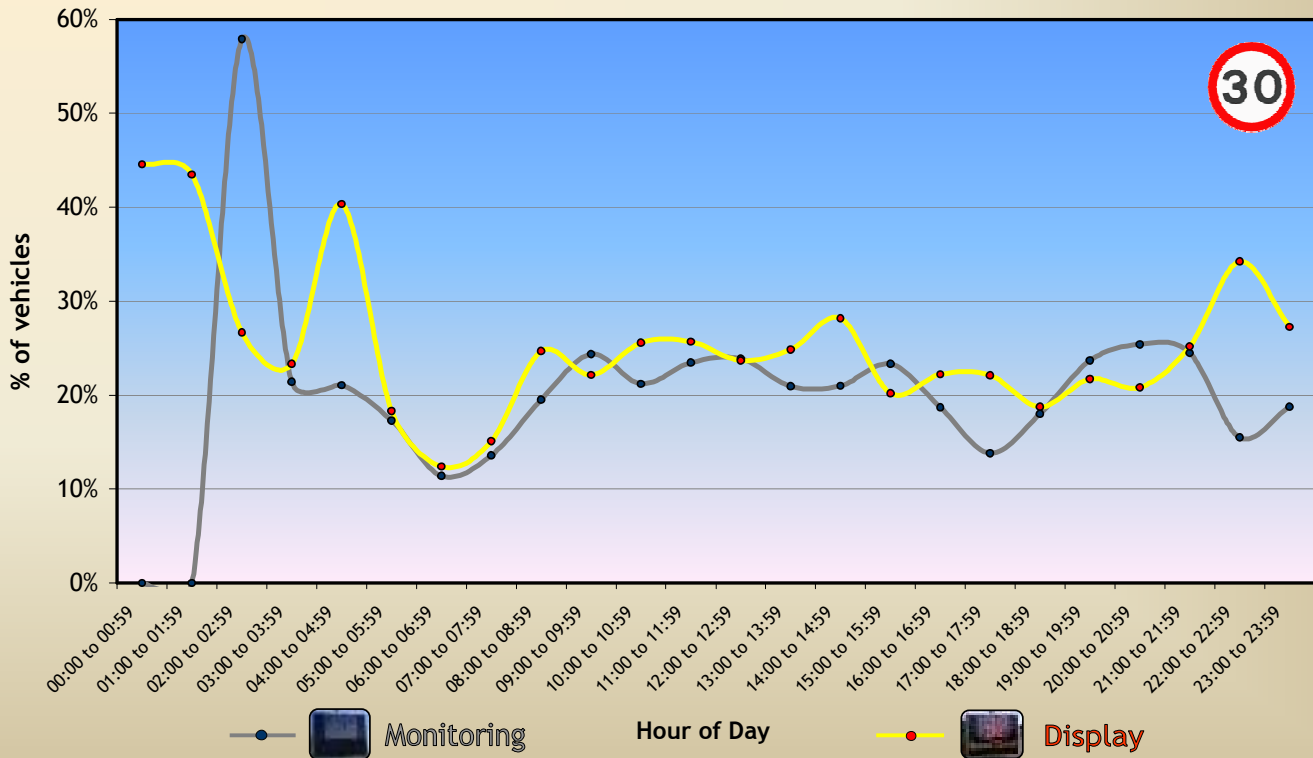
B3267 North Road, St Teath





Percentage of Vehicles ≤ 30 mph by hour

B3267 North Road, St Teath



Percentage of Vehicles > 40 mph by hour

B3267 North Road, St Teath

