

## Report on MVAS Speed Sensor Readings

Reporting Periods: 4<sup>th</sup> to 24<sup>th</sup> July and 8<sup>th</sup> to 12<sup>th</sup> September

Sensor Location: Ashcombe Lane

Traffic Direction: Incoming from A27

The sensor records show around 2000 vehicles per day enter the village from the A27. This has remained reasonably constant during the two monitoring periods.

The attached documents are extracts from the analysis carried out on the recorded data by the Houston Stats Analyzer software supplied with the MVAS equipment. The data from both periods show similar speeds and distributions.

Plot 1: Shows Average speed versus time together with the 85<sup>th</sup> percentile speed.

For information the 85<sup>th</sup> percentile speed is the speed at which 85 percent of drivers travel past the sensor. This is taken by traffic engineers as the speed at which a speed limit could be set with reasonable certainty that it will be observed by most drivers. Interestingly the highest speeds are recorded in the early hours of the morning – this being when traffic volumes are lowest.

Plot 2: Shows Traffic volumes versus time of day

As expected at this location the peak flows occur around 5 to 6pm, presumably with people driving home through the village en-route to the C7.

Plot 3: Scatter plot of average vehicle speed over the monitoring periods. The vertical lines show upper and lower speeds recorded.

Plot 4: The Histogram shows vehicle counts versus speed.

As with plot 1 it can be seen that the majority of traffic travels at or around the speed limit but significant numbers exceed this.

Plot5: Shows the percentile counts versus speed:

This is another way of presenting plot 4 showing 95% of traffic travels at 35mph or less with 2% exceeding this.

Report prepared by John Bewick

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