

Update on Vehicle Activated Signs – 9-Mar-23

Introduction

At the communities committee meeting on 10-Jan-23 it was agreed to purchase a solar powered vehicle activated sign and site it permanently in the ground socket we have in Lower Road. We did not agree which model to purchase.

I have now got a quote for the pole we require and narrowed down the choice of MVAS which range from £3272 to £4559 depending on how much functionality you want.

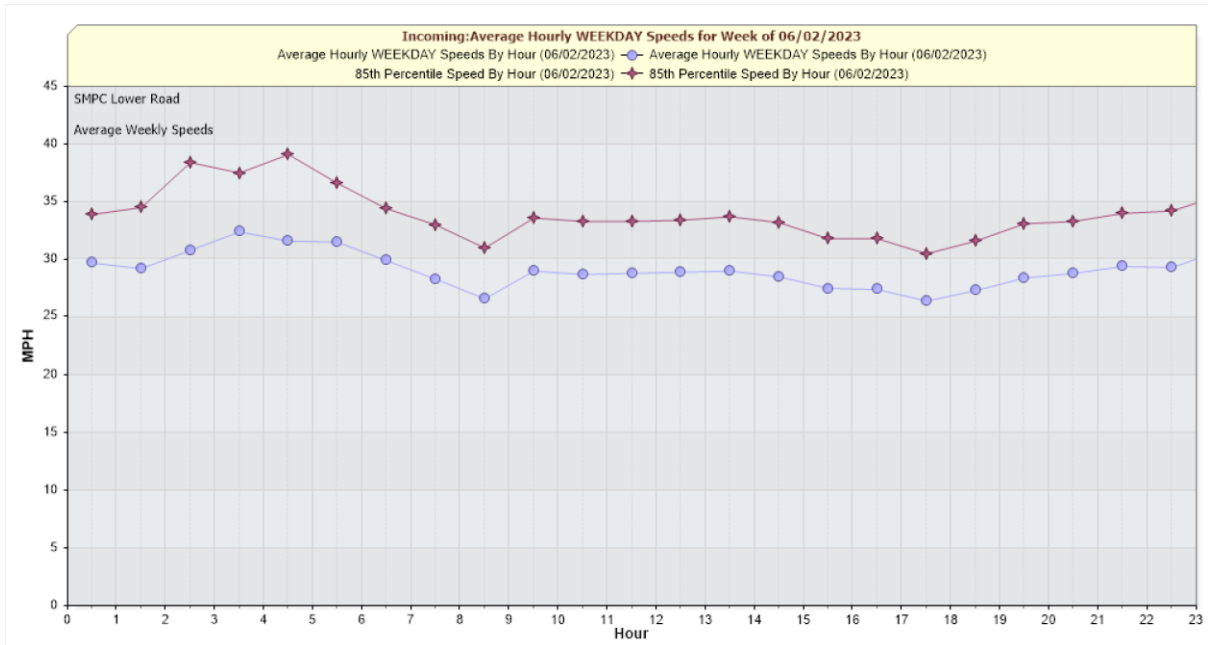
Since the last meeting we have also borrowed the MVAS we share with Weston Turville. It has been in operation in Lower Road for 2 weeks then Risborough Road for 3 weeks. This has given us some data on vehicle volumes and speeds which may affect the decision whether to purchase a sign.

Results from MVAS

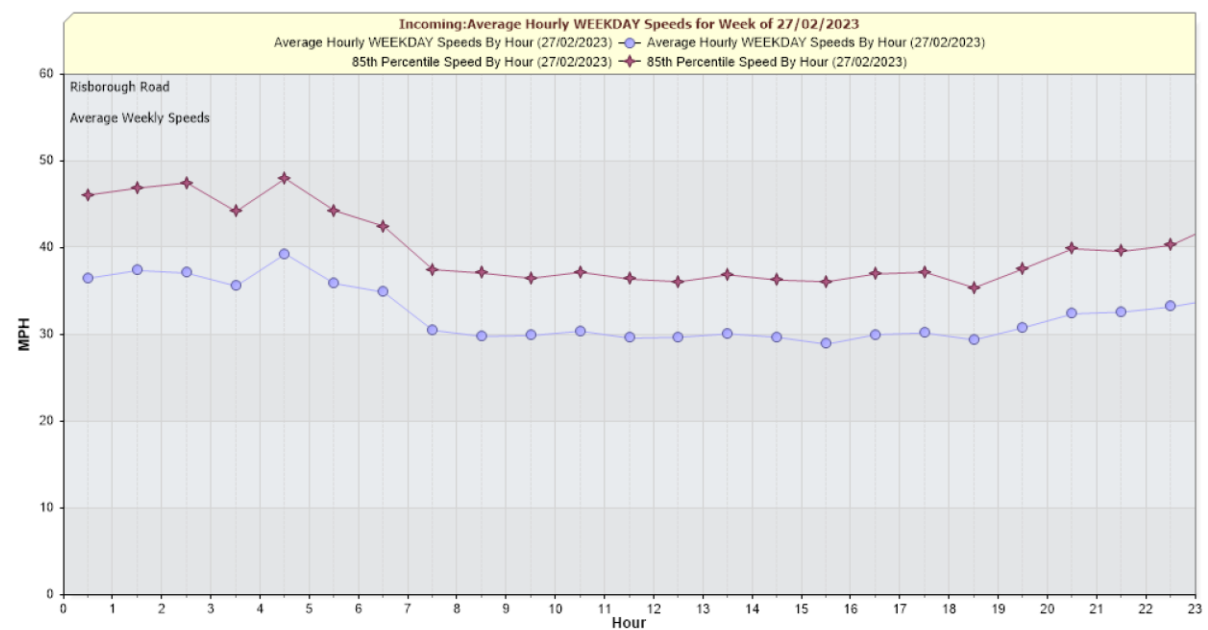
Average Hourly Speeds

There are 2 lines on the graph. The lower one is the mean average speed and the upper one is the 85th percentile speed i.e. the speed below which 85% of the traffic is travelling. The 85th percentile speed is the one usually used because the mean average speed can be distorted by a few fast speeders or slow queuing traffic.

Lower Road

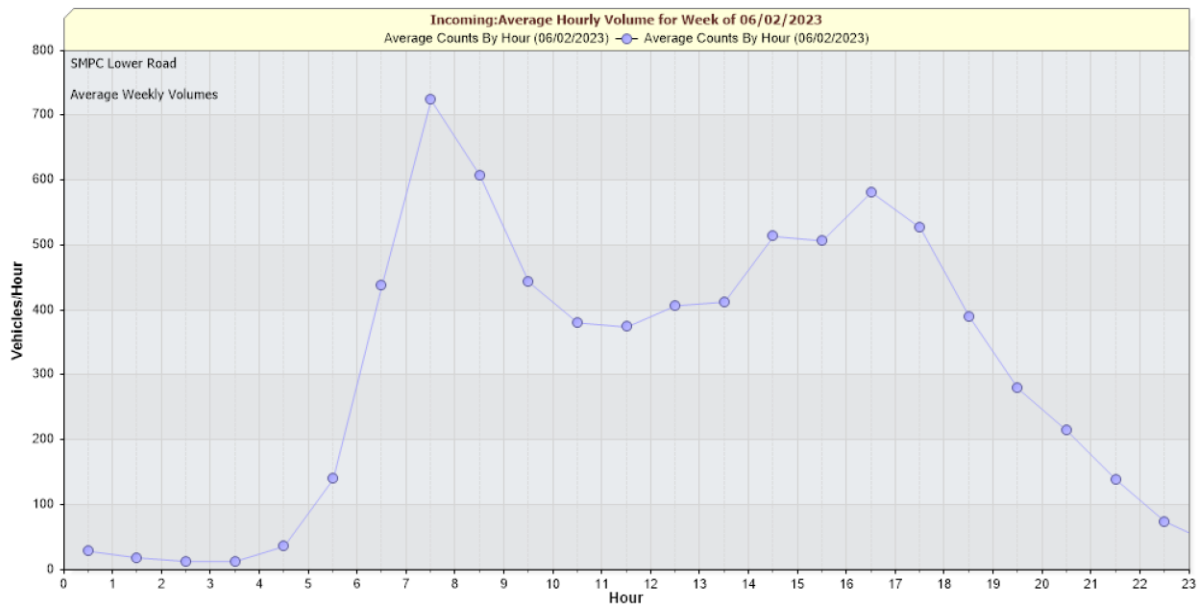


Risborough Road

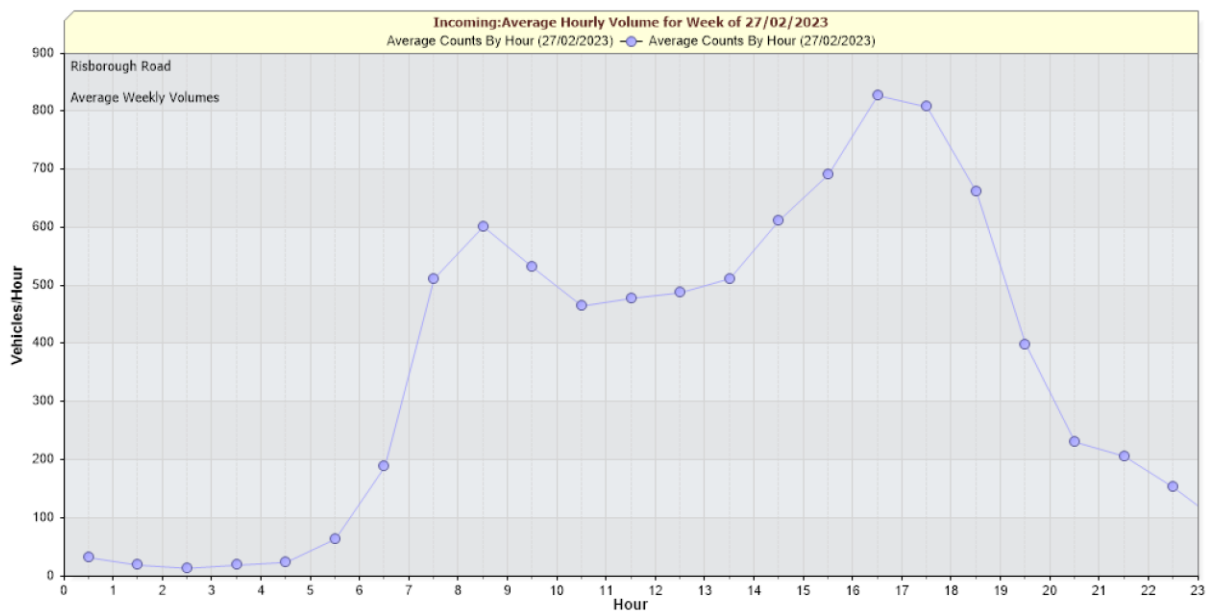


Average Hourly Volumes

Lower Road – volumes peak at around 700 vehicles per hour travelling towards the village with the morning peak being larger.

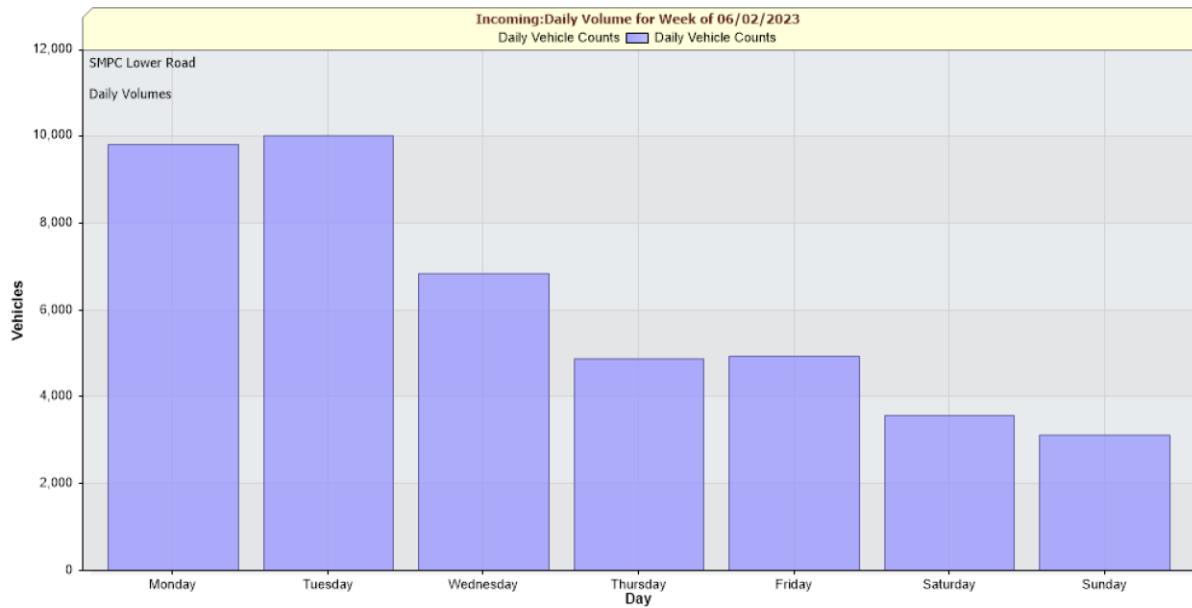


Risborough Road - volumes peak at around 800 vehicles per hour travelling towards the village with the evening peak being larger.

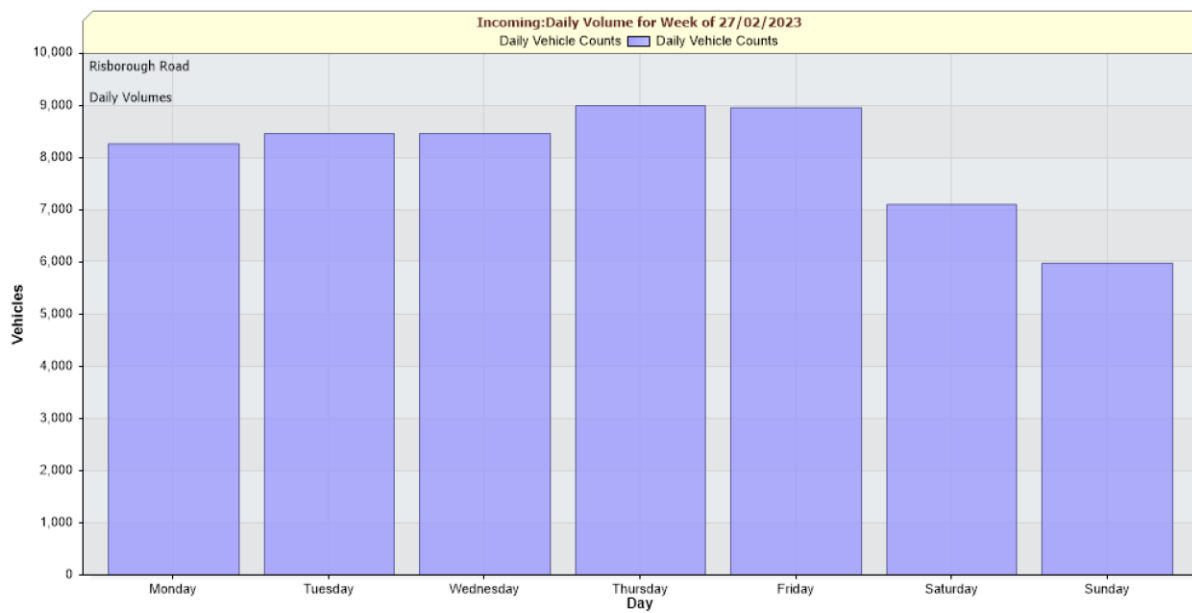


Daily Volumes

Lower Road – note that these were not consistent over the 2 weeks measured but the period included a rail strike one day and part of half term.



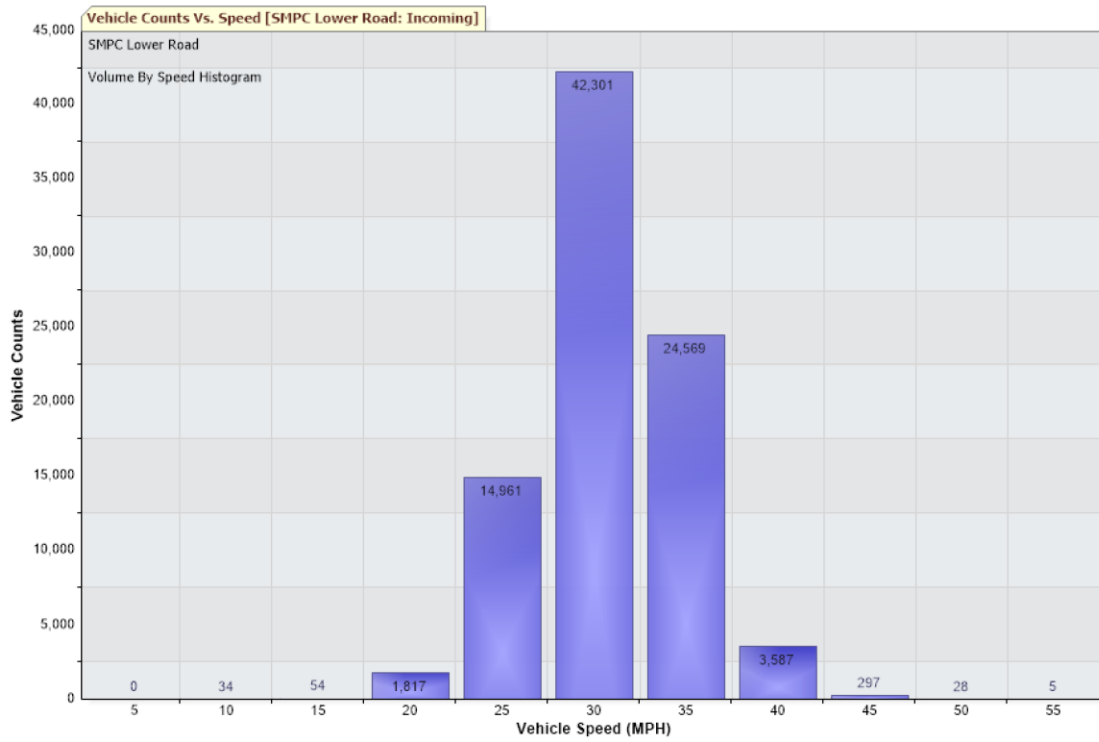
Risborough Road



Vehicle Counts vs Speed

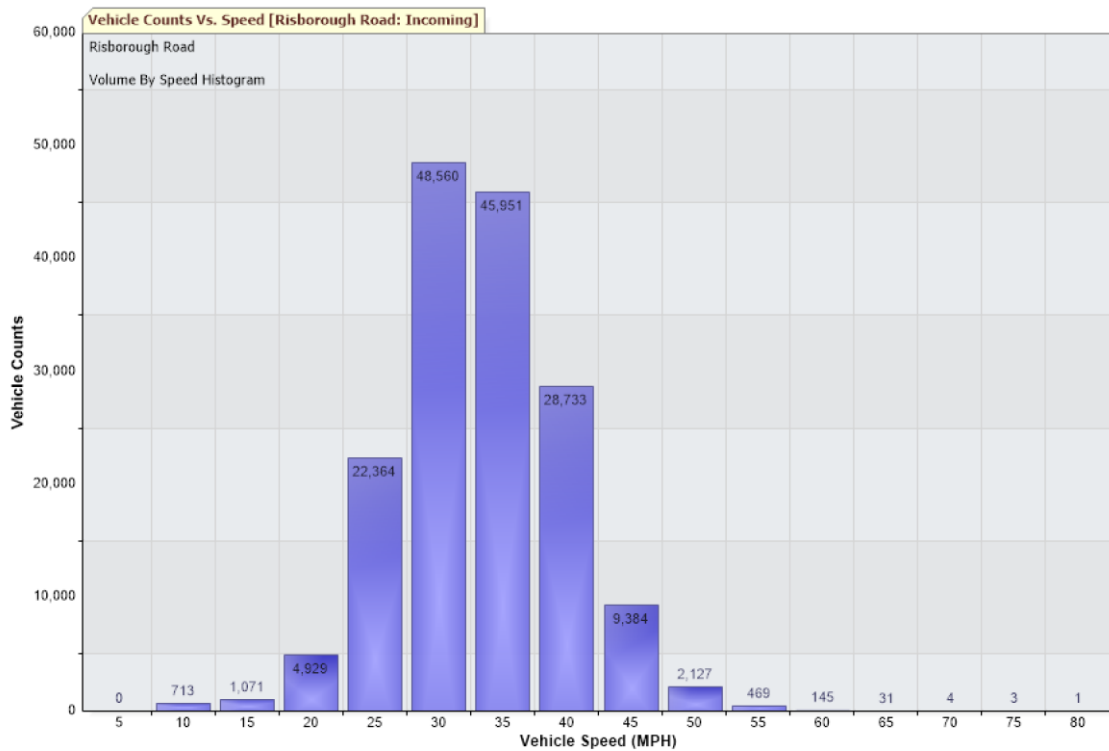
Lower Road

The fastest speed was 50-55 mph and only 5 out of 87,653 vehicles were driving that fast.



Risborough Road

There was more speeding on Risborough Road. Out of 164,485 vehicles, 653 drove over 50mph of which 184 were over 60mph and 1 was over 80mph. In general speeding is in the early hours of the morning.



VAS Options

If we use the existing ground socket we will have a 76mm pole so we need to consider what size and weight of VAS plus solar panel the pole can handle. Some are rather large and one supplier said we would need an 89mm pole hence I have ruled out the larger models.

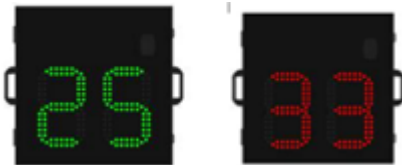
There are also 3 distinct types of VAS:

1. Those that are activated only if the speed exceeds 30mph and which then only display the speed limit. The one in Station Road is an example. **£3272** with pole.



Swarco 30-R-023-

2. Those which display the actual speed, green if below the limit, red if above. **£3842** with pole.



Swarco SDB-32r088-DHX

3. Those which display the actual speed, green speed alternating with smiley face if below the limit, red alternating with frowning face if above. The Truvelo model seems to be very popular and can be seen in Stone, Whitchurch, Wing and Northchurch. **£4559** with pole.



Truvelo TruSign 30CR