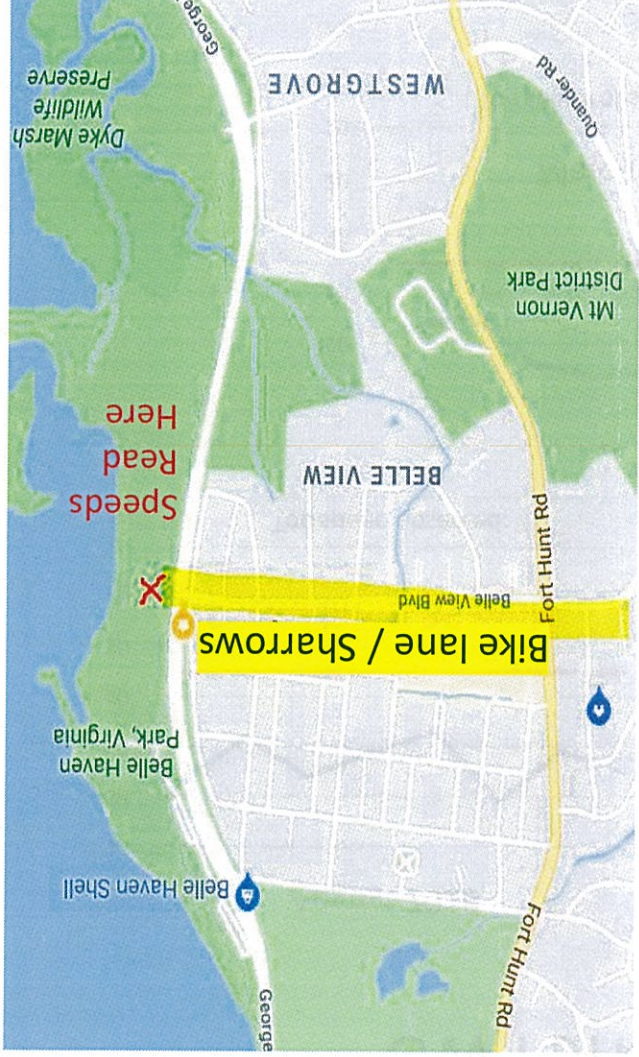


## Cyclist Handheld Radar Speed / Crossing Duration



• There are 3 crossings for bikes between Old Town & the Stone Bridge: Belle Haven, Belle View, & Tulane Bldvs. Bike lanes & Sharrows funnel riders to Belle View to cross to the Mount Vernon Trail – it's the safest crossing.

• Crossing is possible at Belle View because it has the best visibility. Because traffic breaks up in ways you can describe with wave theories, generally cars bunch up into waves or "packs" leaving gaps with occasional cars at higher or lower than average speeds.

• I check speeds during AM rush hour (around 8 am), and crossing wait-time readings during PM rush hour (around 6 pm). Summer crossing times from the trail to Belle View range from 0-3 mins in summer (when it's light), from 1-8 mins in the winter (because of the dark). 8 mins feels very long.

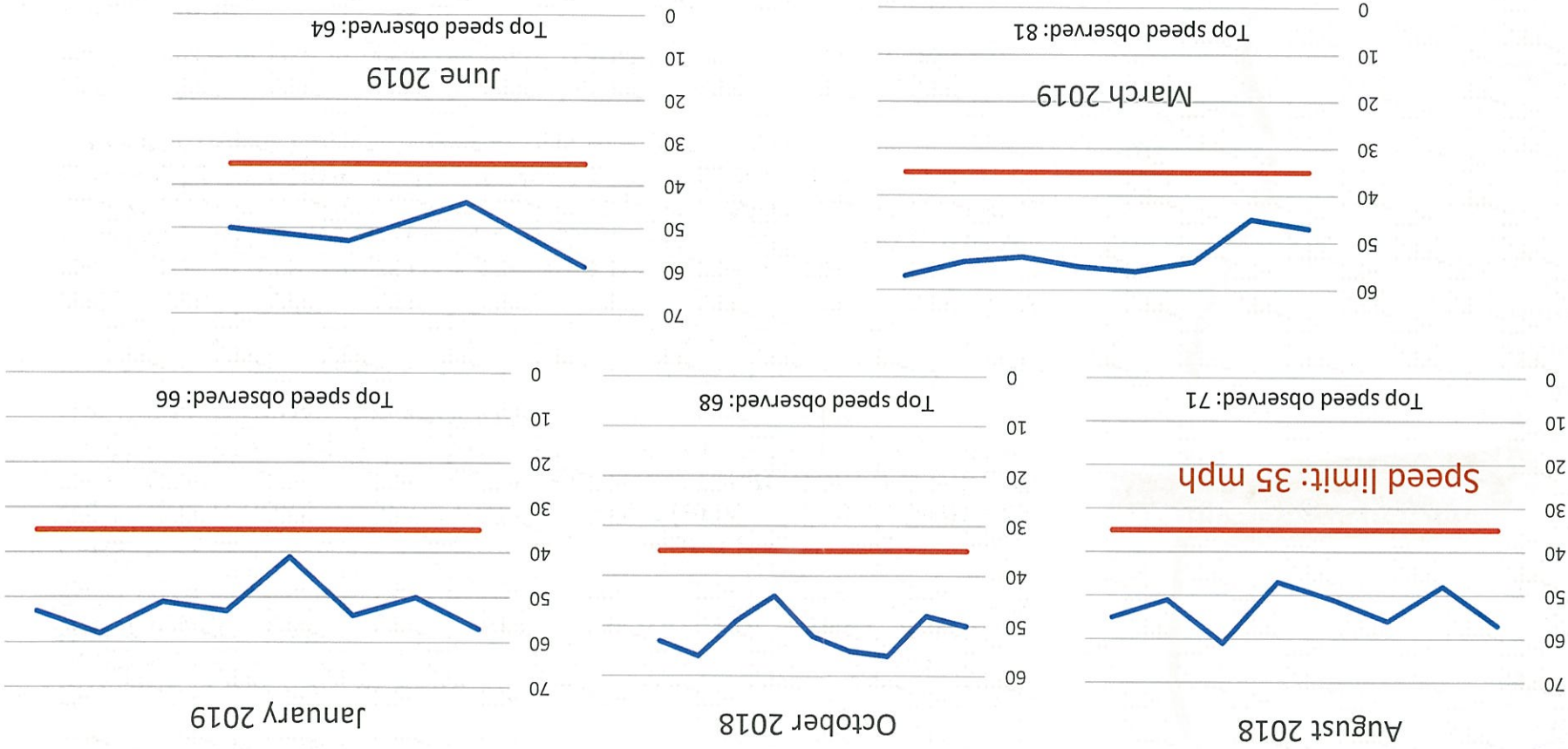
• I've taken radar readings for 3 years on days I bike commute. I take speed readings with a handheld "pocket radar" radar gun of northbound traffic around 8 am. I've calibrated its accuracy with my car. I take readings of 3 cars in a pack and average them to determine average speed of the entire pack. I also note outliers not the fastest time on the Parkway, it's just the busiest. I don't have complete data but weekends are faster.

• I tweet these results within minutes of taking them, tagging the US Park Police & the @NPSGWNMP handles, to alert other bikers.

• When USPP are using their radar guns, I've also taken speed readings ½ and 1 mile further north of where they are doing it. Generally the speed reduction effects of enforcement disappear within the first ½ mile. Automatic flashing signage does not seem to reduce speeds at all.

• For data sets & more info: Miles Keogh, kidcongo@gmail.com

# Average Car Speeds For A Cyclist Crossing The GW Parkway, Northbound around 8 am



For a pedestrian or cyclist hit by a car, the average risk of death is 10% at an impact speed of 24.1 mph, 25% at 32.5 mph, 50% at 40.6 mph, 75% at 48.0 mph, and 90% at 54.6 mph.

<https://www.sciencedirect.com/science/article/abs/pii/S000145751200276X>