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2. I-40 Oklahoma

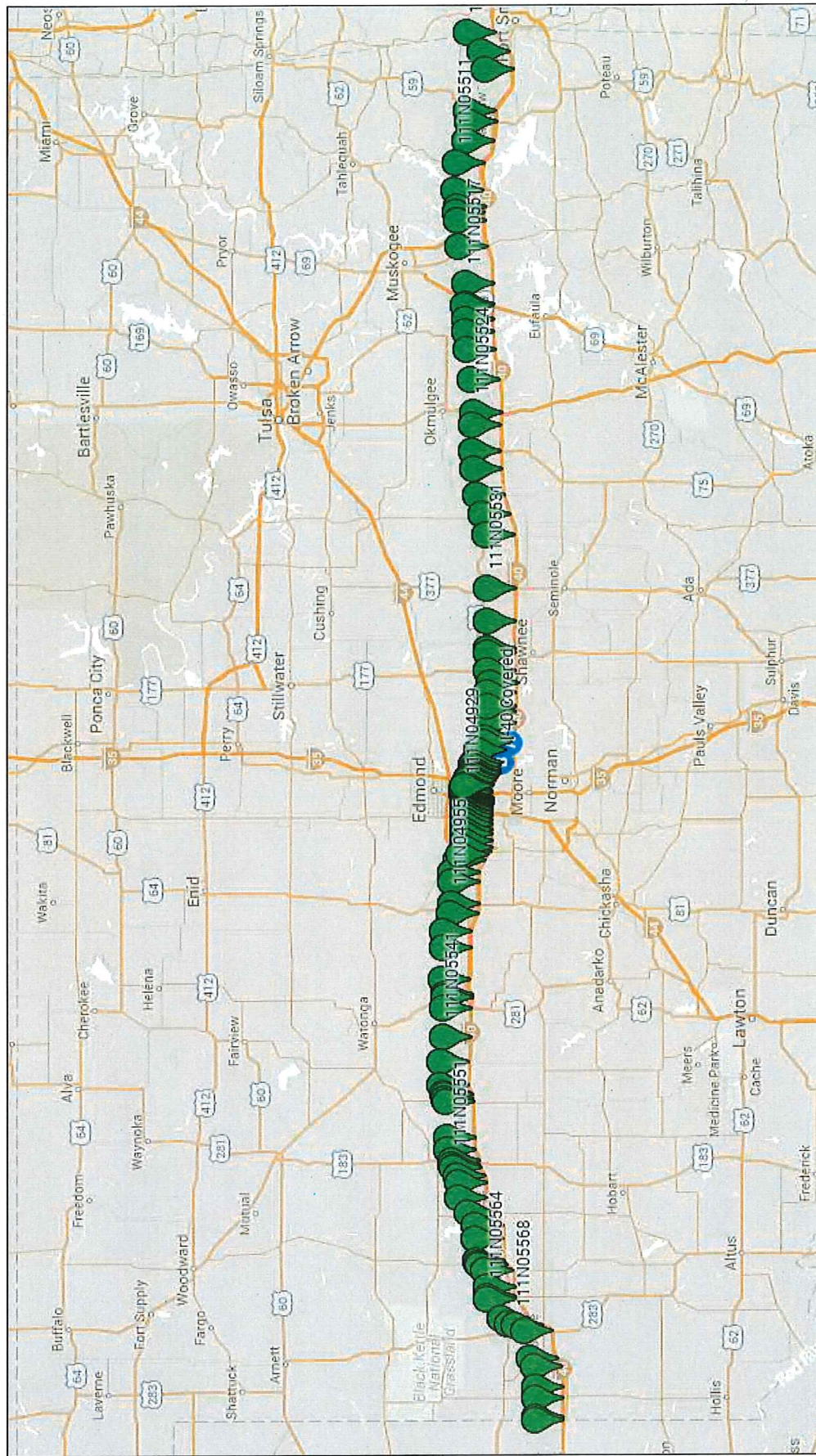


Figure 3 - NPMDRS I-40 Oklahoma Segment map



Figure 4 - ODOT Figure provided

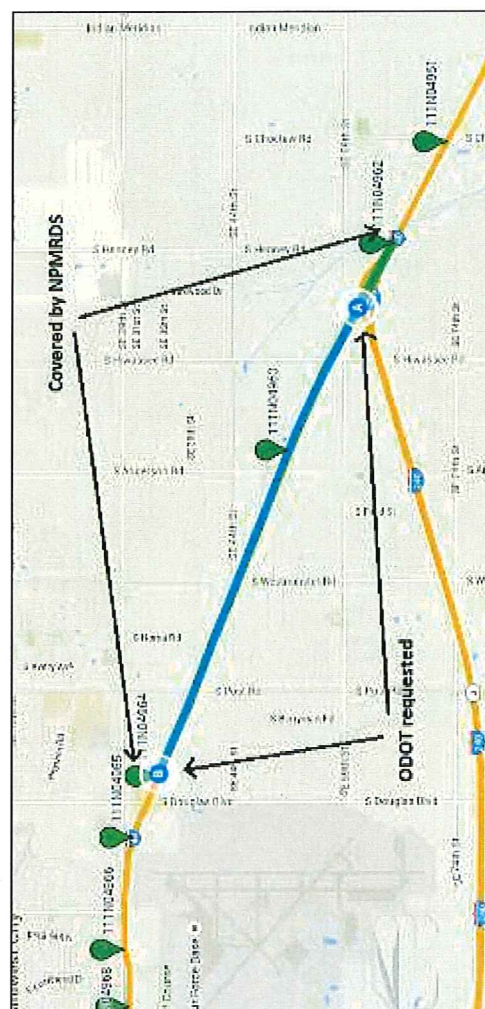
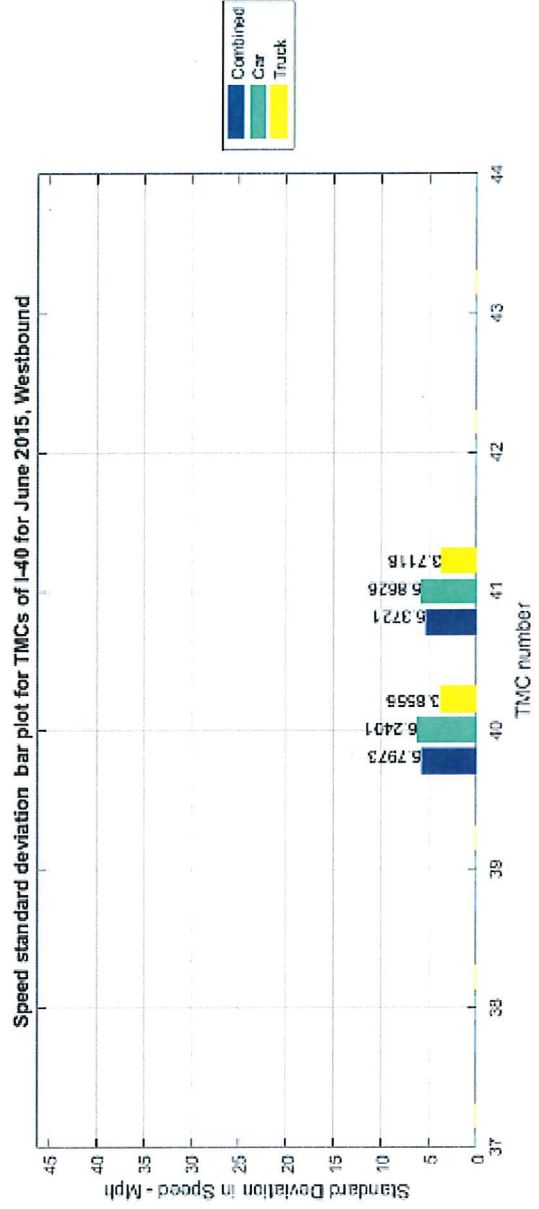
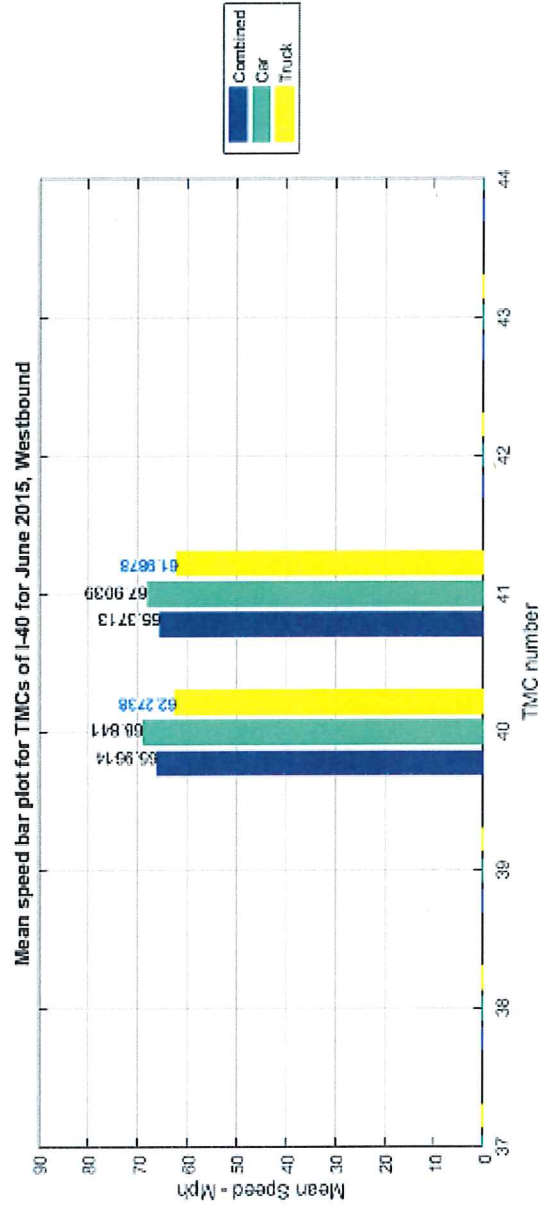
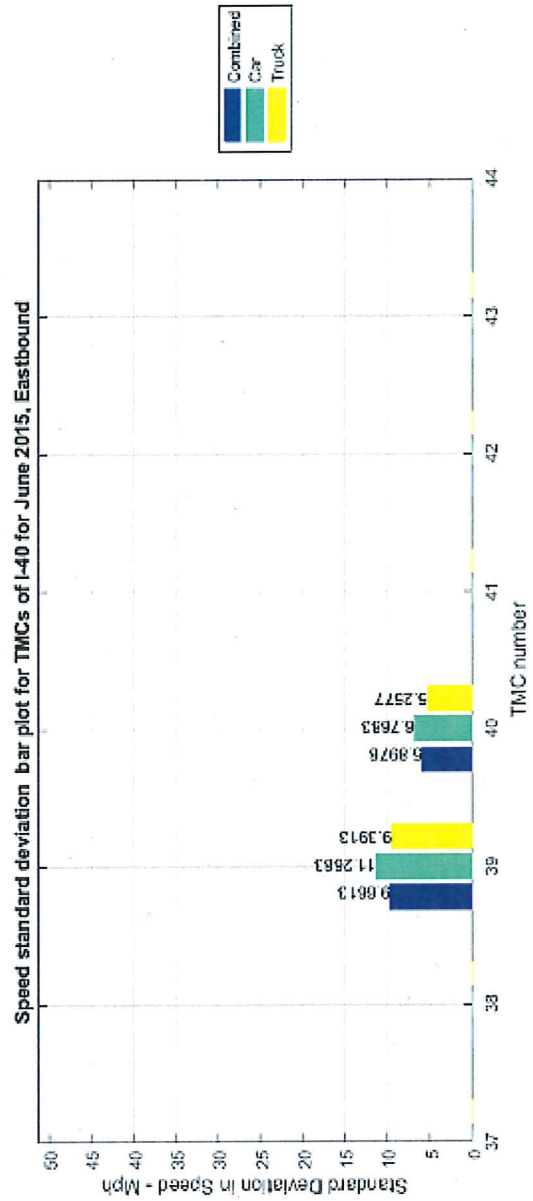
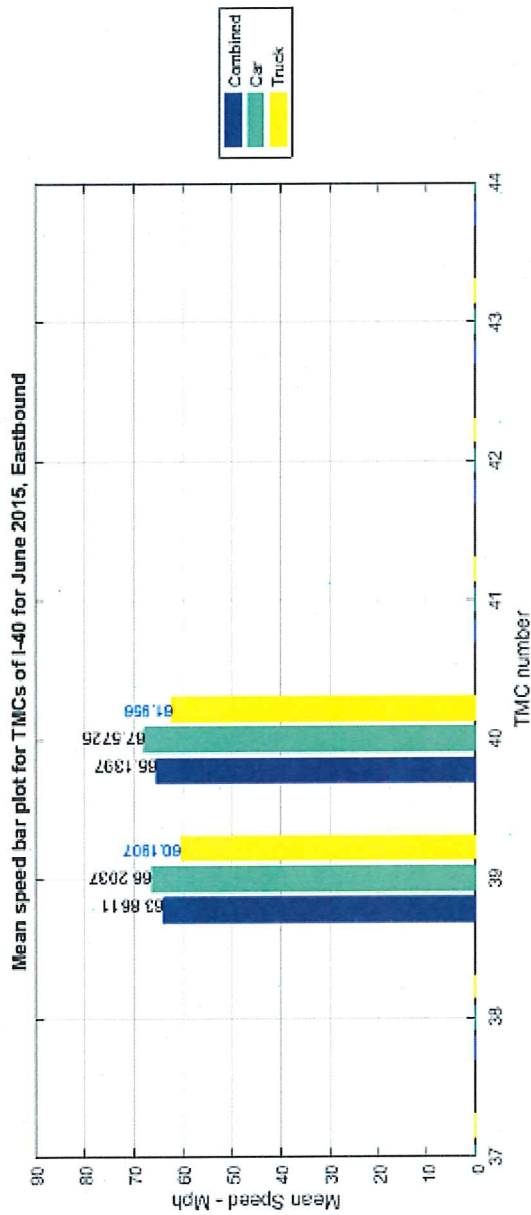


Figure 5 - NPMRDS requested area coverage comparison

Westbound:

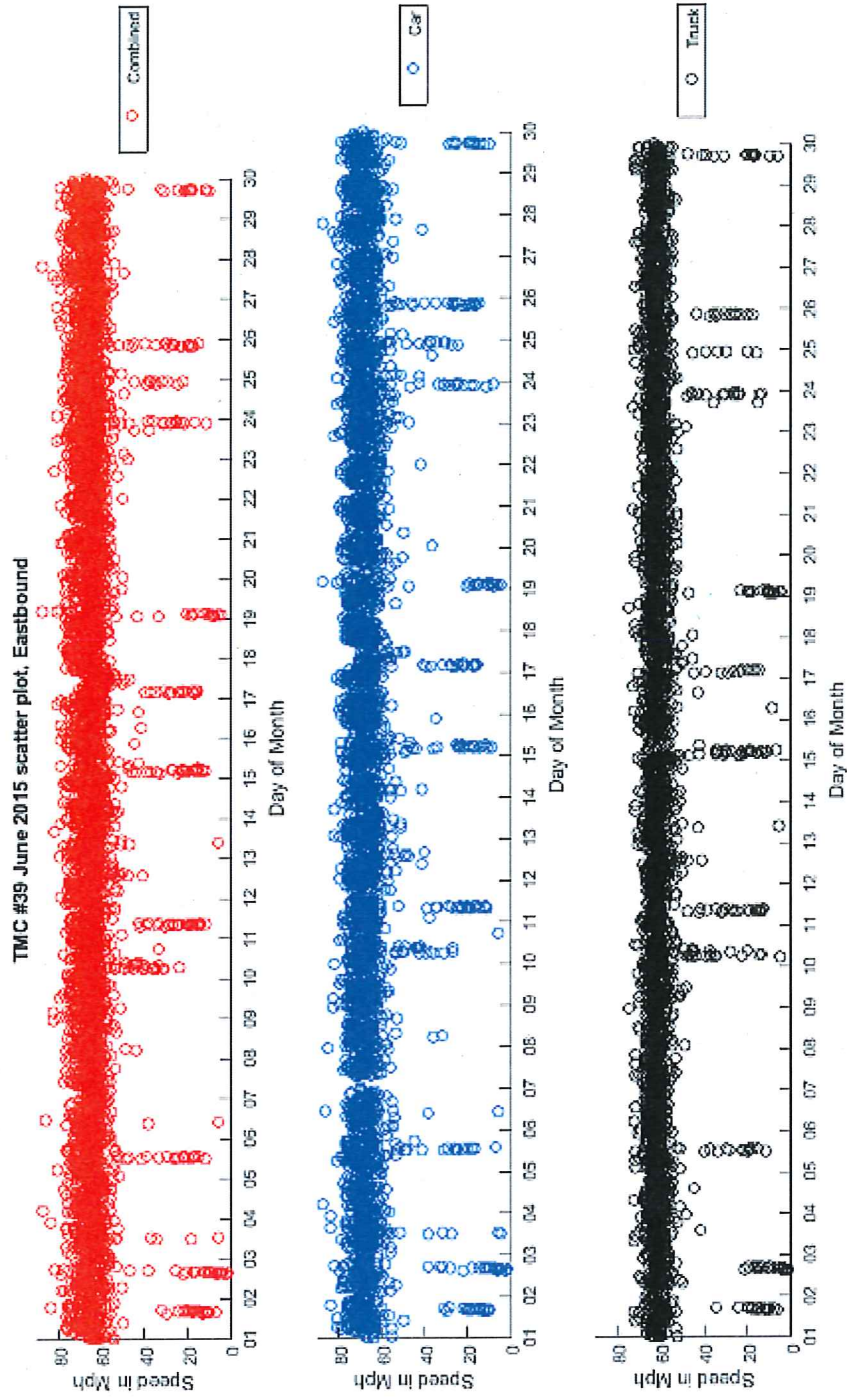


Eastbound:

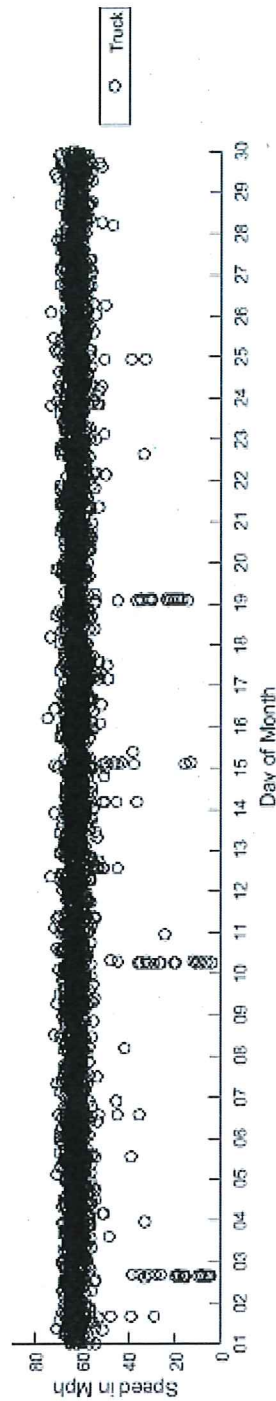
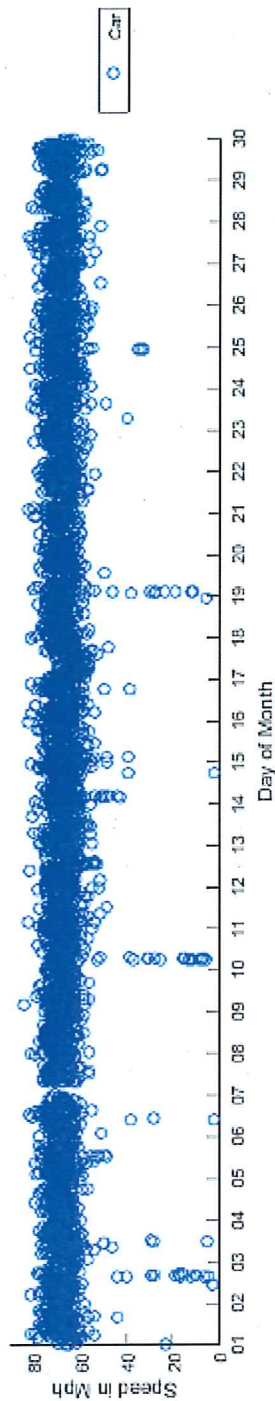
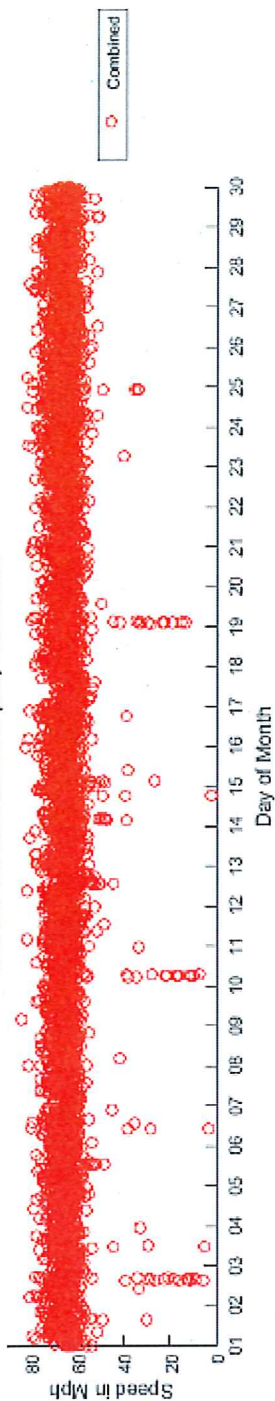


Monthly Plots

Eastbound:

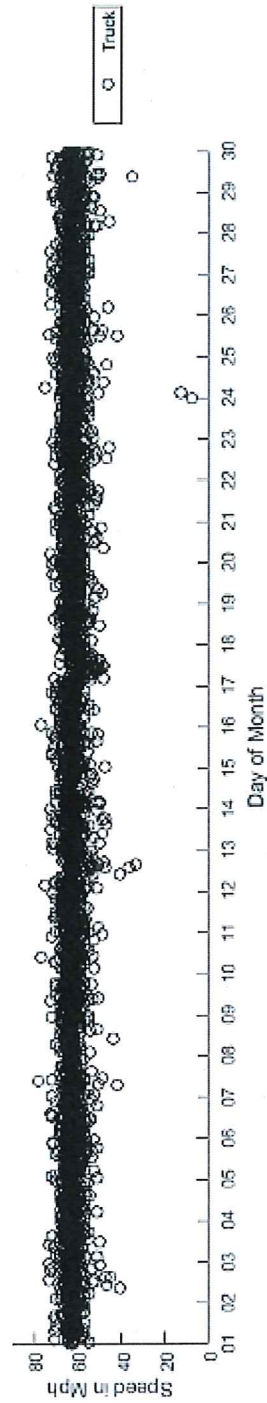
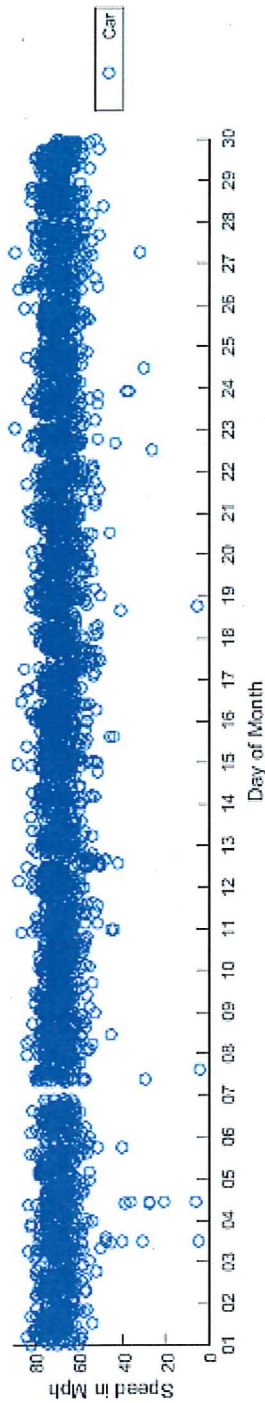
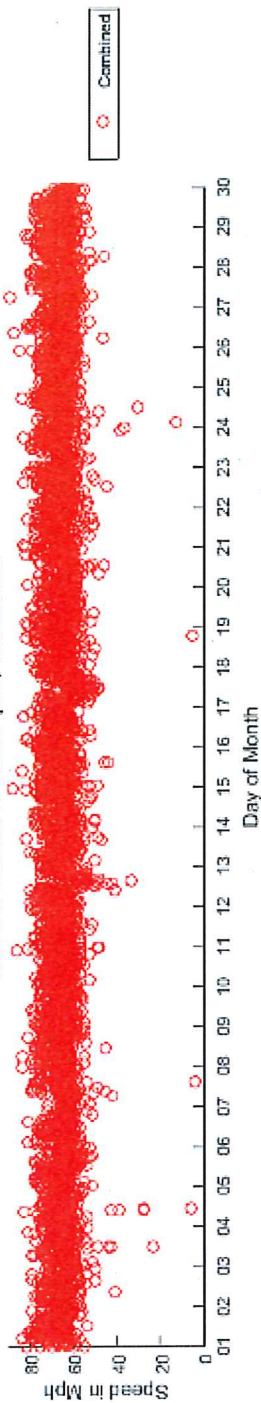


TMC #40 June 2015 scatter plot, Eastbound

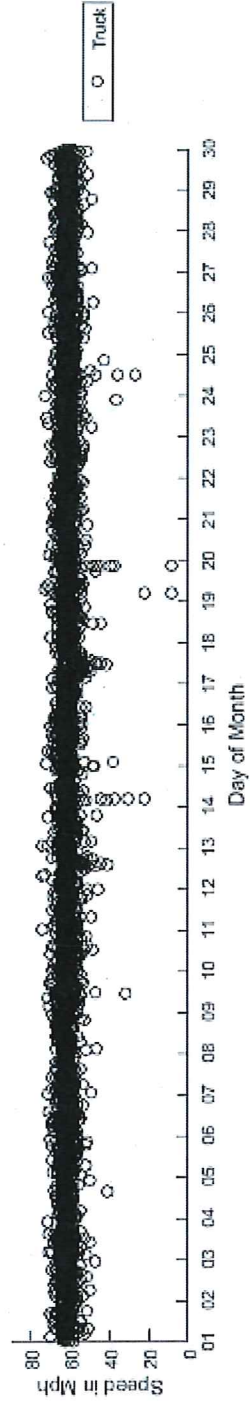
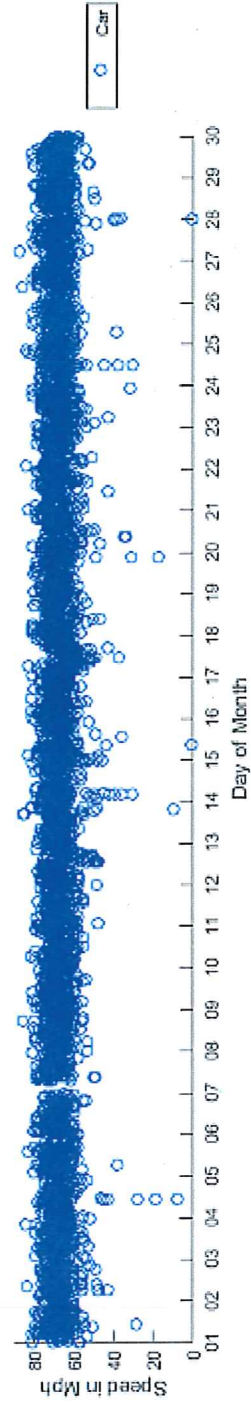
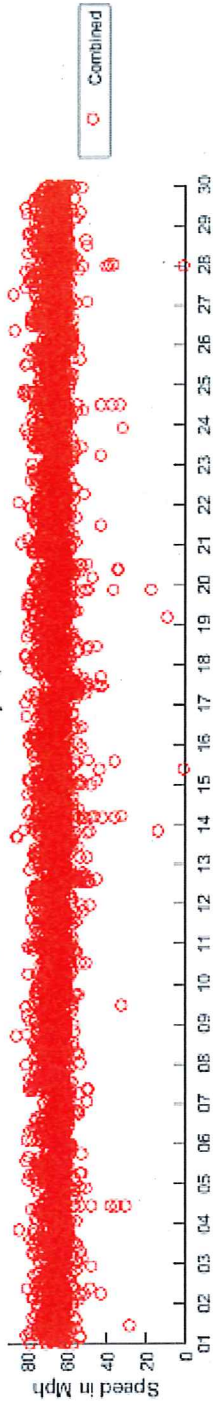


Westbound

TMC #40 June 2015 scatter plot, Westbound

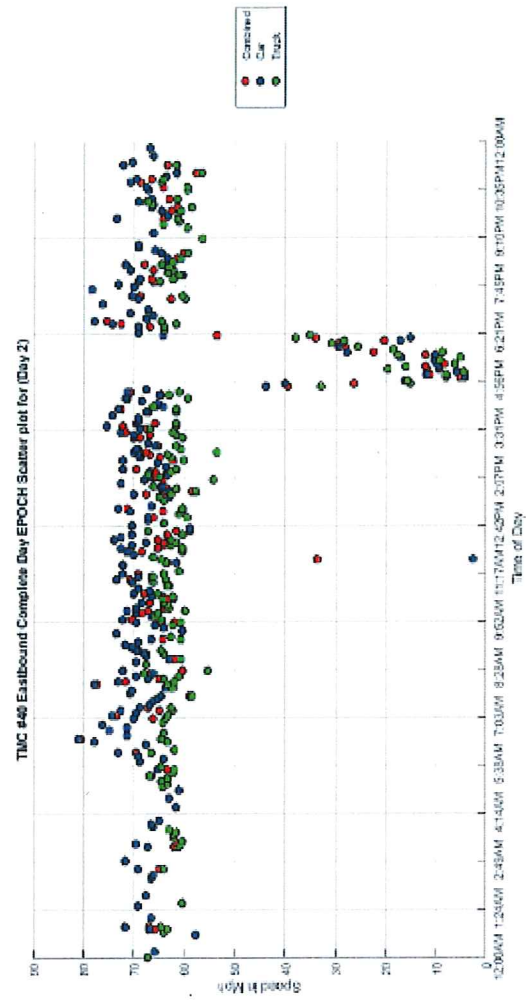
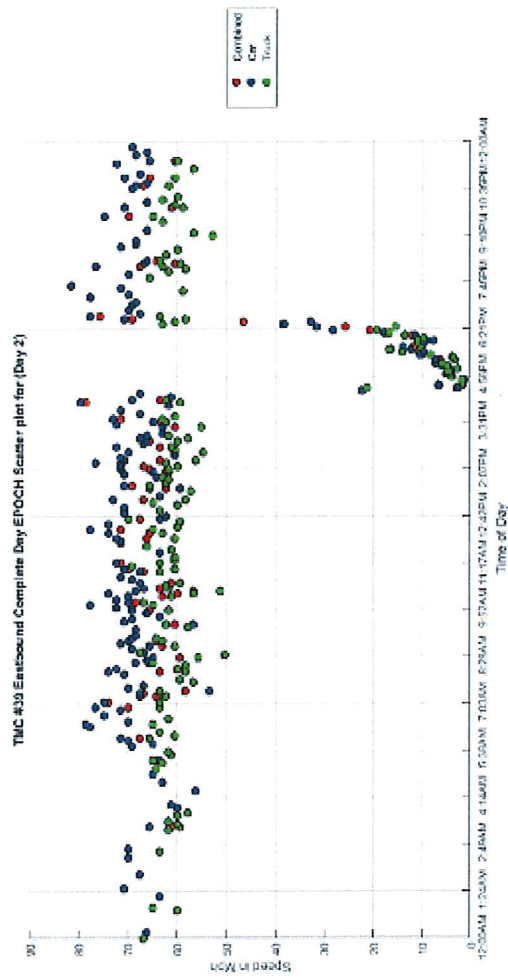


TMC #41 June 2015 scatter plot, Westbound

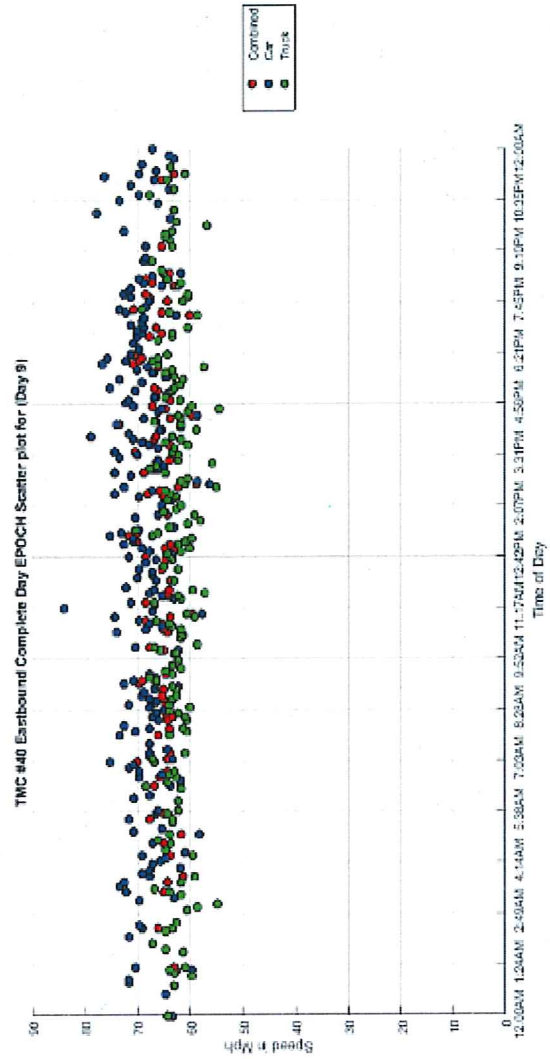
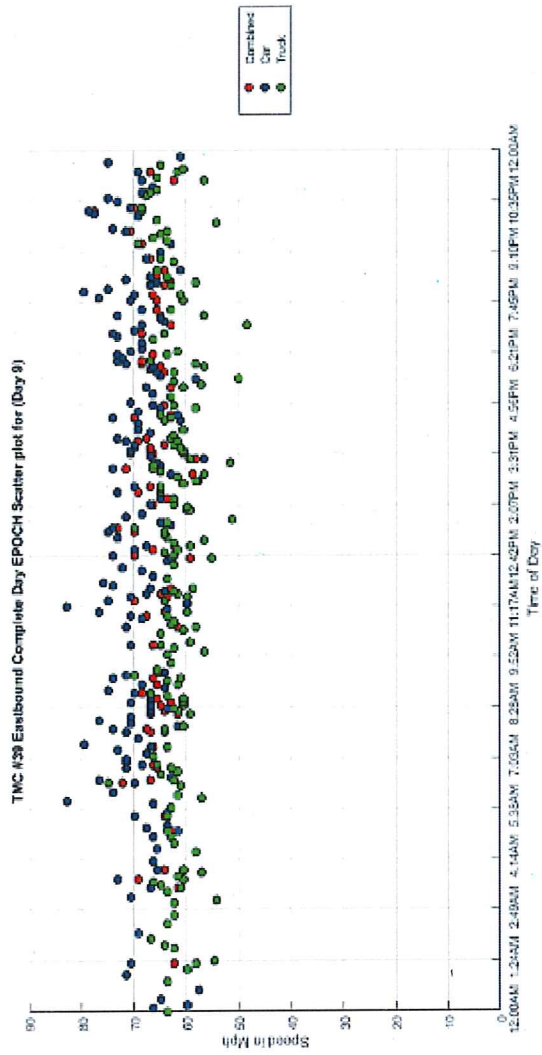


Daily Plots

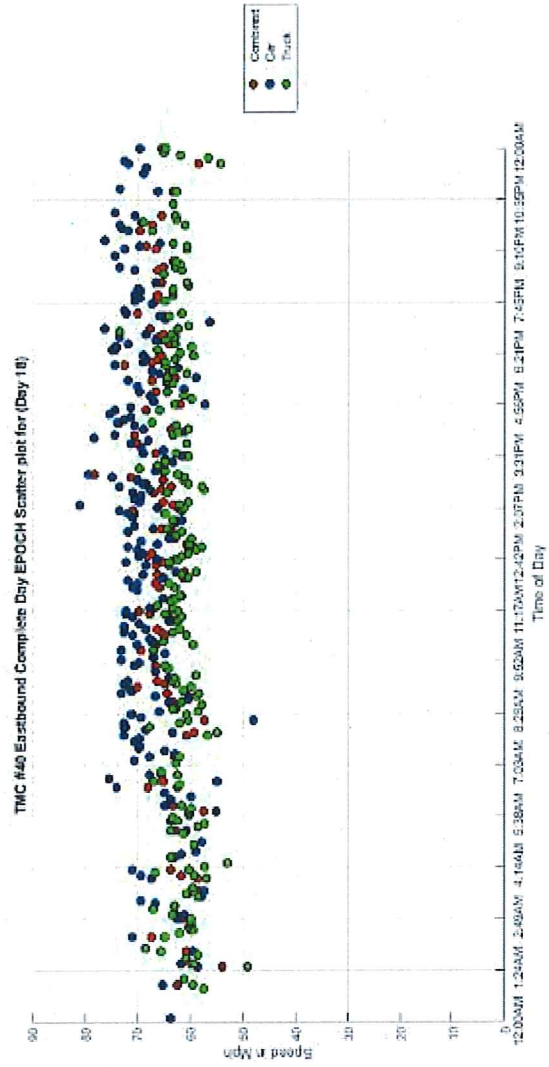
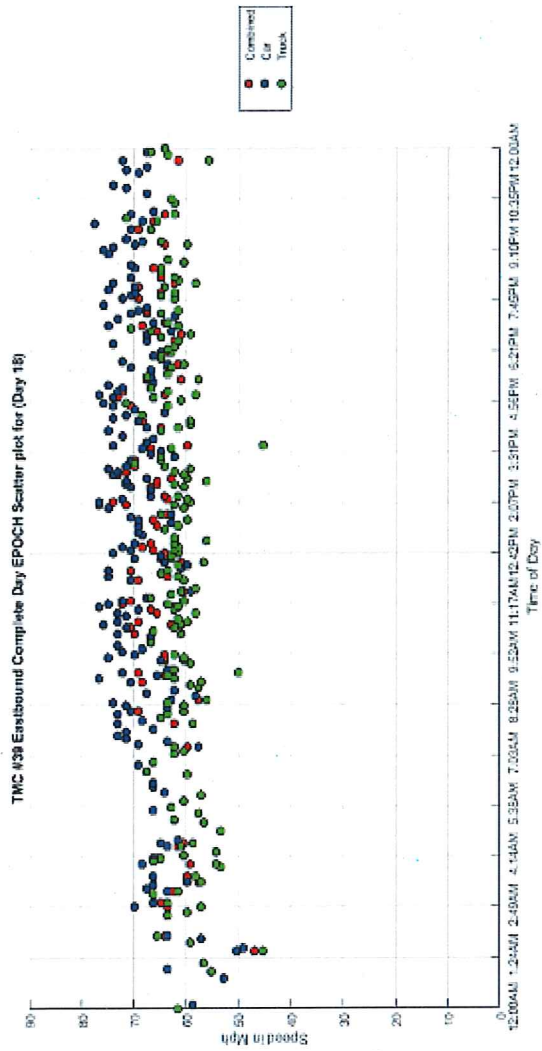
Eastbound segments 39-40 on June 2nd, 2015 (Tuesday)



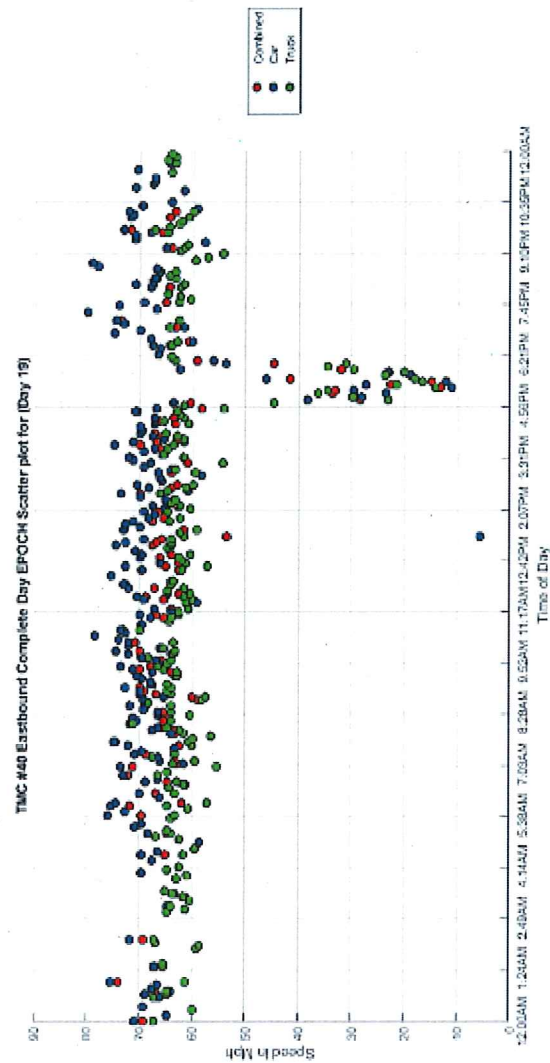
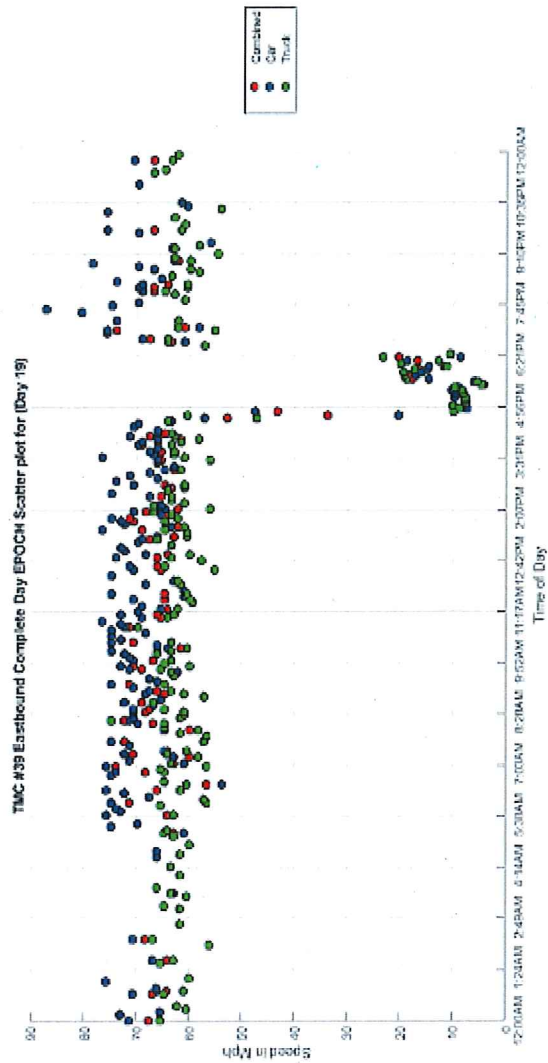
Eastbound segments 39-40 on June 9, 2015 (Tuesday)



Eastbound segments 39-40 on June 18, 2015 (Thursday)



Eastbound segments 39-40 on June 19, 2015 (Friday)



Please see answers in red:

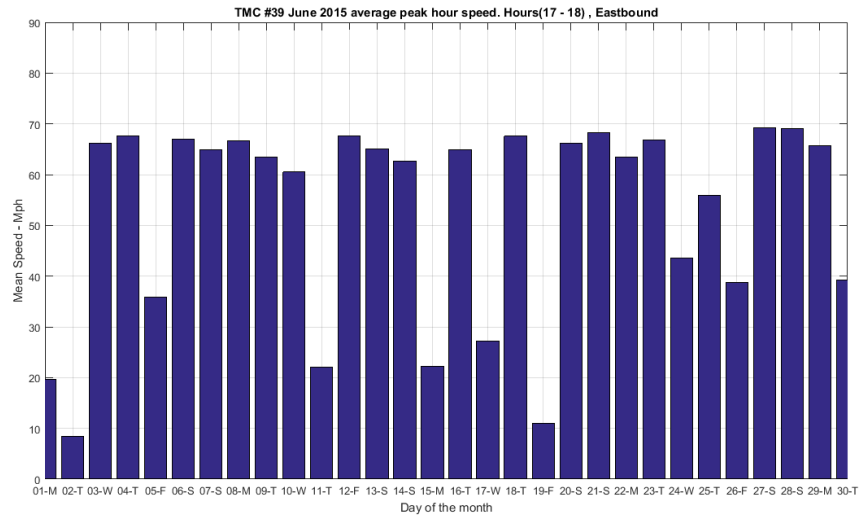
[Tracey] I finally got a chance to look at these. Great information.

I'm looking specifically at the information for I-40 between I-240 and Douglas near Tinker AFB.

Getting a mean speed for the peak hour is important so we can compare it to the non-peak average speed (which we also need), and thereby calculate travel time savings.

Eastbound:

[Naim] The average peak speed calculated for June 2015, between 5-6 PM per day:

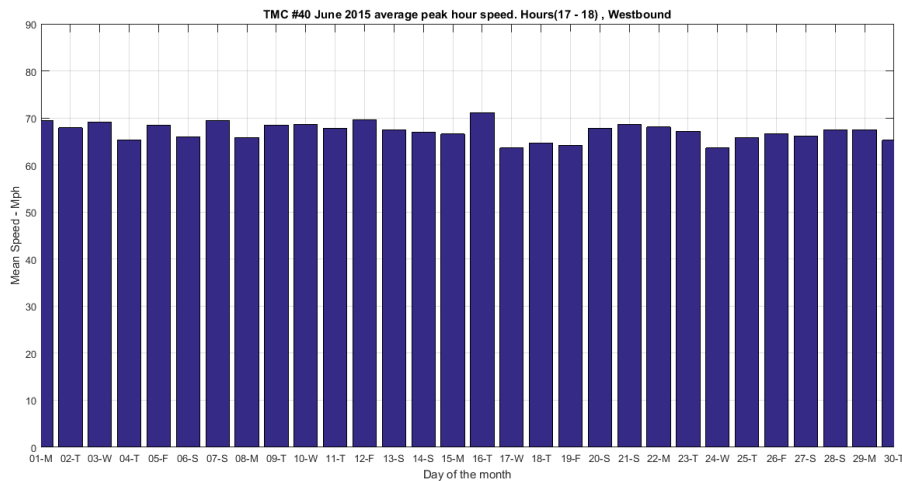


[Naim] Mean peak hour speed over all days combined = 52.5750 mph

[Naim] Mean non-peak speed over all days combined = 64.5994 mph

Westbound:

[Naim] The average peak speed calculated for June 2015, between 5-6 PM per day:

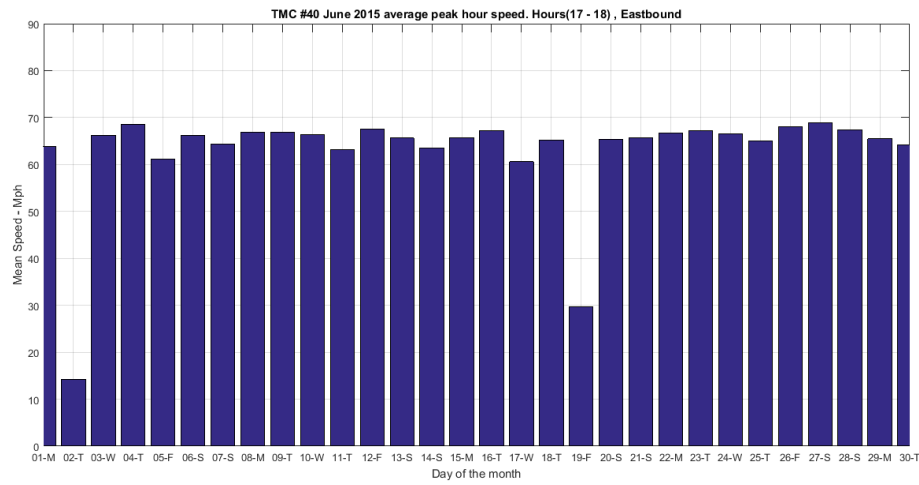


[Naim] Mean peak hour speed over all days combined = 67.1632 mph

[Naim] Mean non-peak speed over all days combined = 65.8946 mph

Eastbound:

[Naim] The average peak speed calculated for June 2015, between 5-6PM per day:

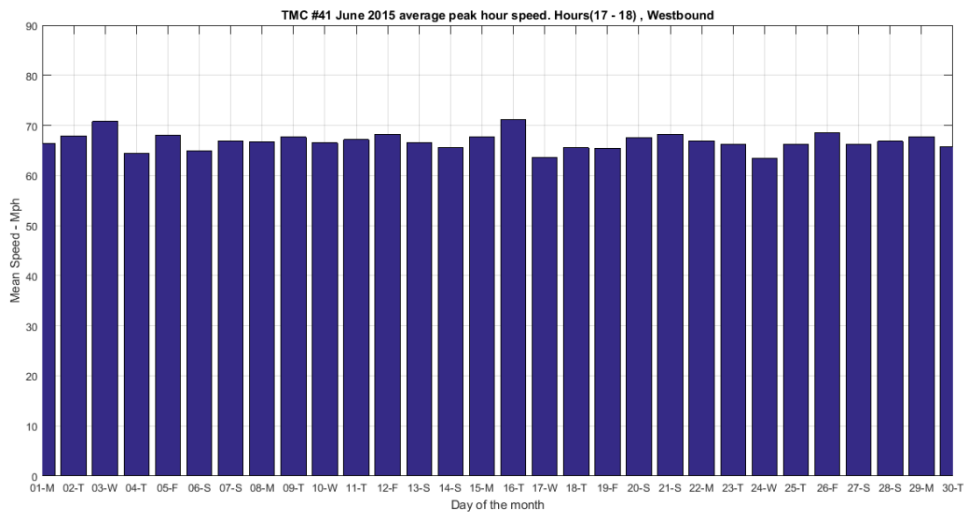


[Naim] Mean speed for all days combined = 62.7848 mph

[Naim] Mean non-peak speed over all days combined = 65.2840 mph

Westbound:

[Naim] The average peak speed calculated for June 2015, between 5-6PM per day:

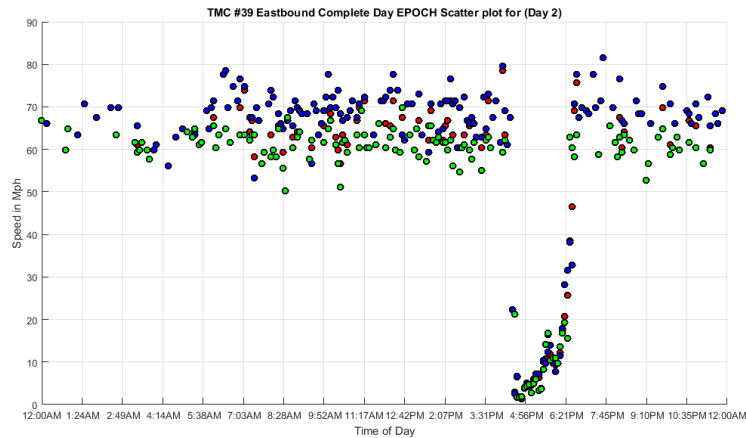
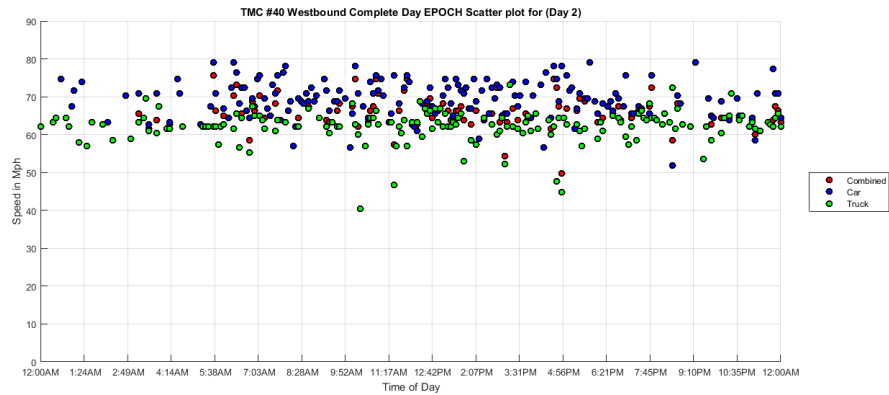


[Naim] Mean speed for all days combined = 66.8327 mph

[Naim] Mean non-peak speed over all days combined = 65.2916 mph

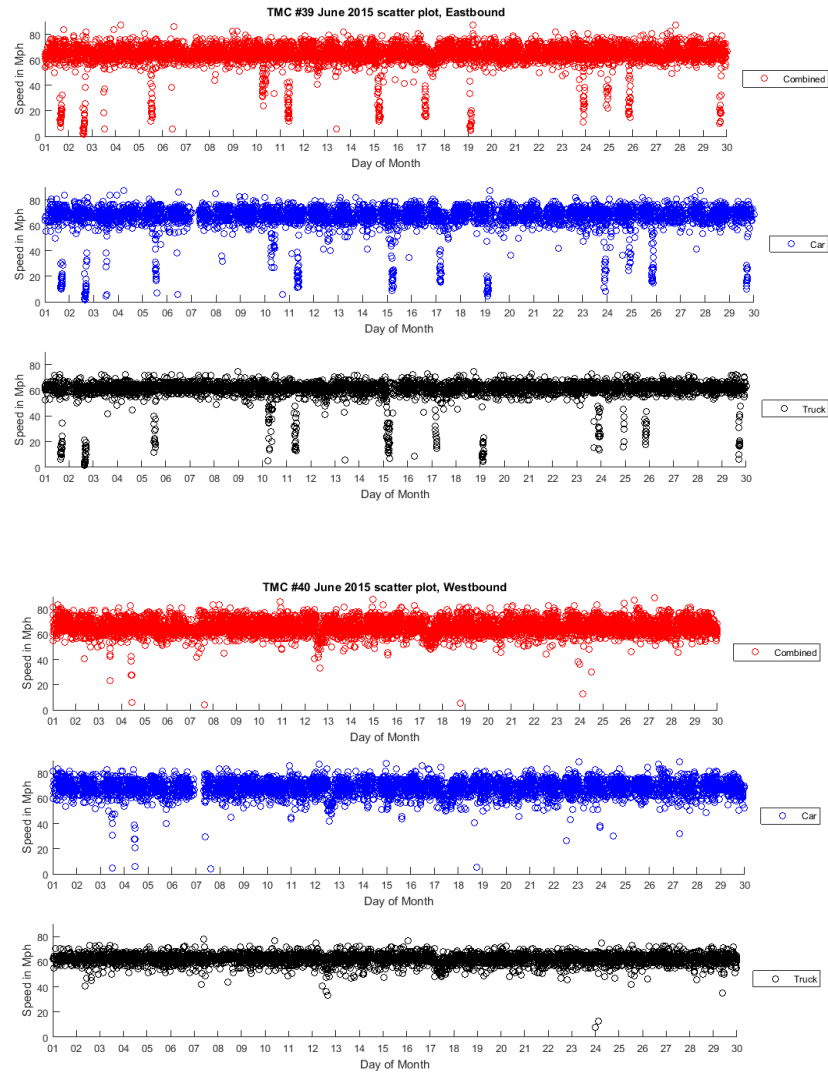
Looks like there's only one peak hour eastbound (5-6PM). Is there a similar problem Westbound in the AM?

Daily plot for segment 40 West compared to 30 East (opposite sides,same segment) show no particular peak hour. This can also be seen in the monthly plots previously sent which indicate a difference in congestion levels between eastbound and westbound sides of the roadway



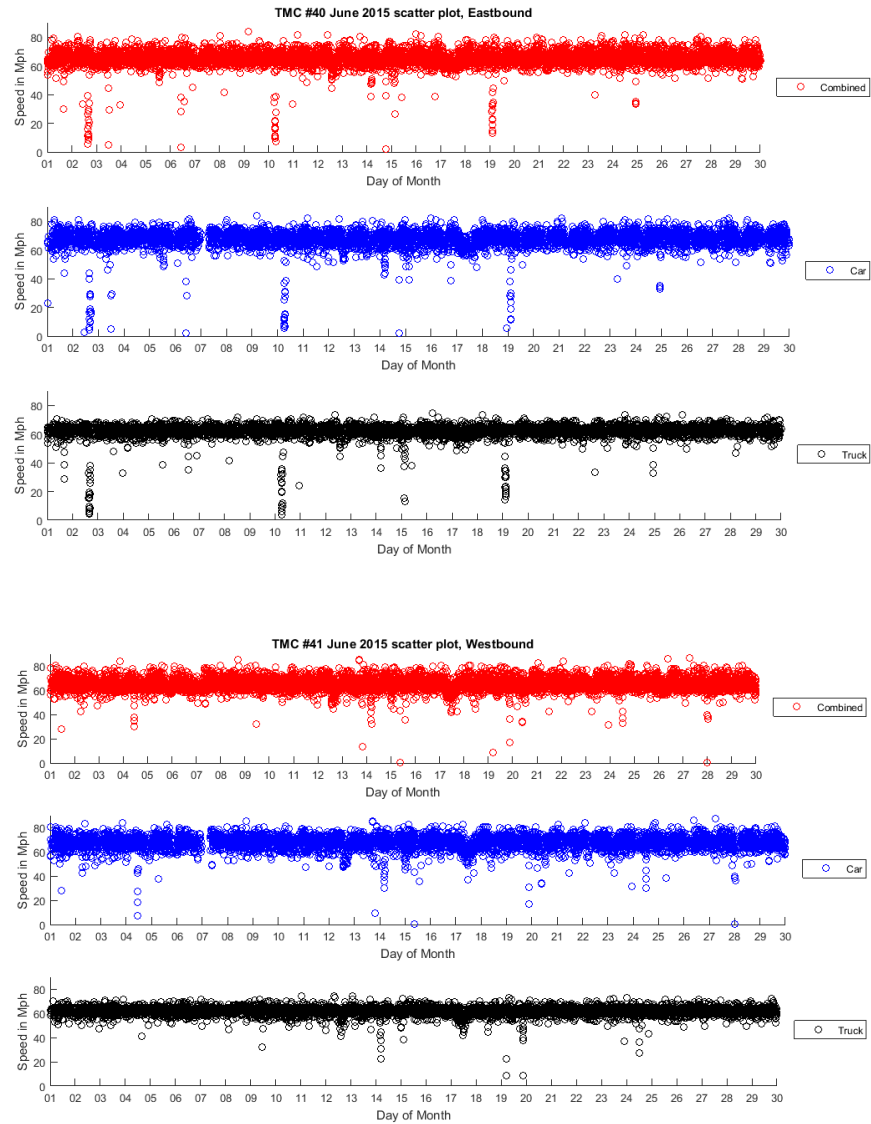
- Segment 40 west does not seem to experience a recurrent congestion pattern.

(39E and 40w, same segment, opposite directions)

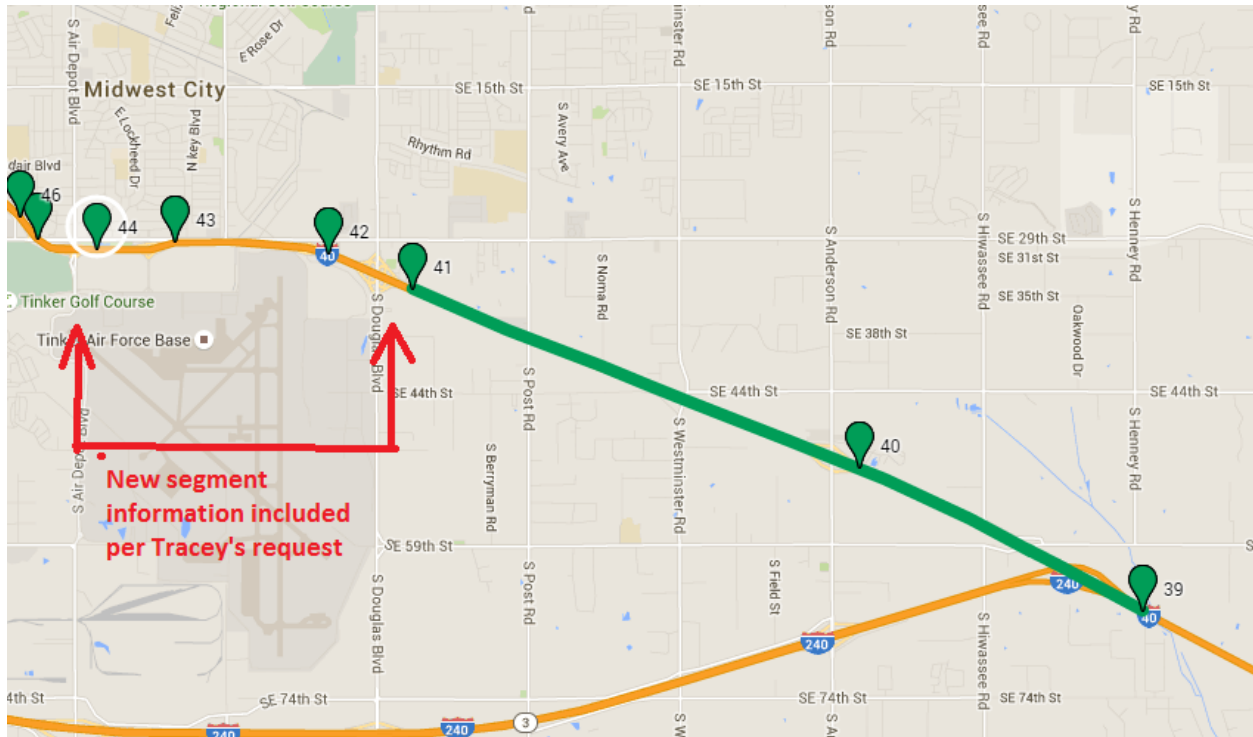


Same goes for next segments.

(40E and 41 w)

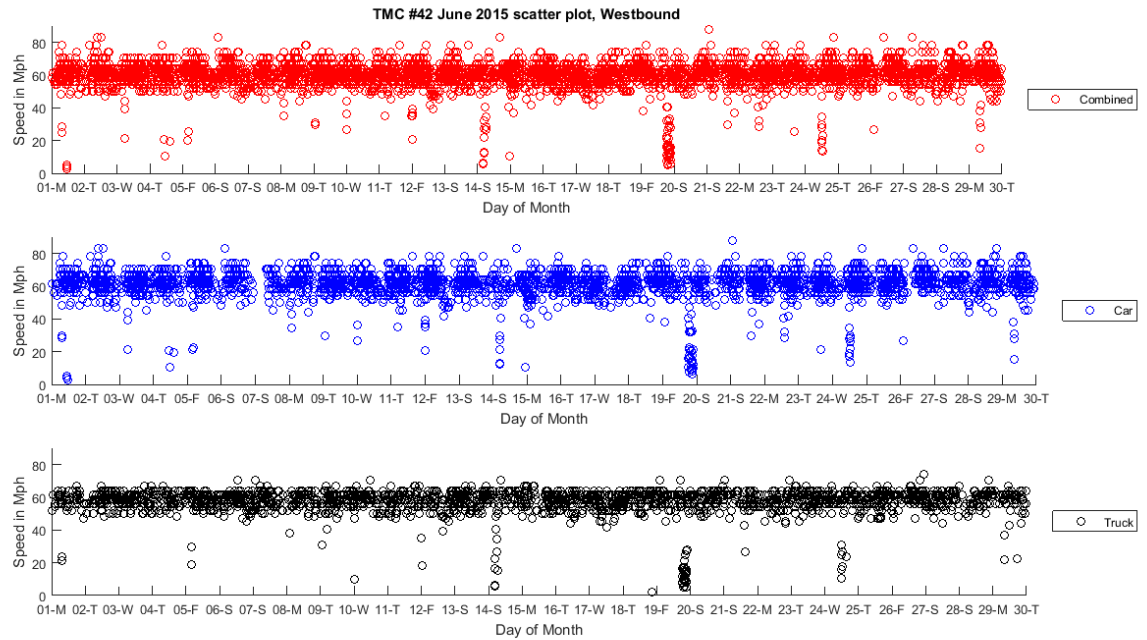
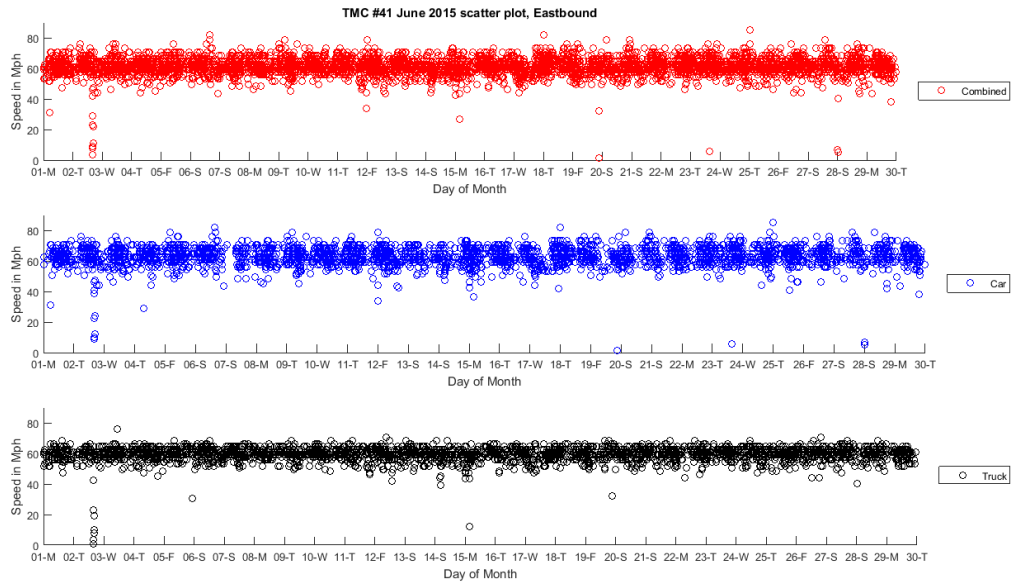


Also (assuming that the Douglas Exit is a major source of congestion), we need to get the speed data for the segment west of our project (or maybe 2 or 3 segments to the west if we think that congestion backs up that far).

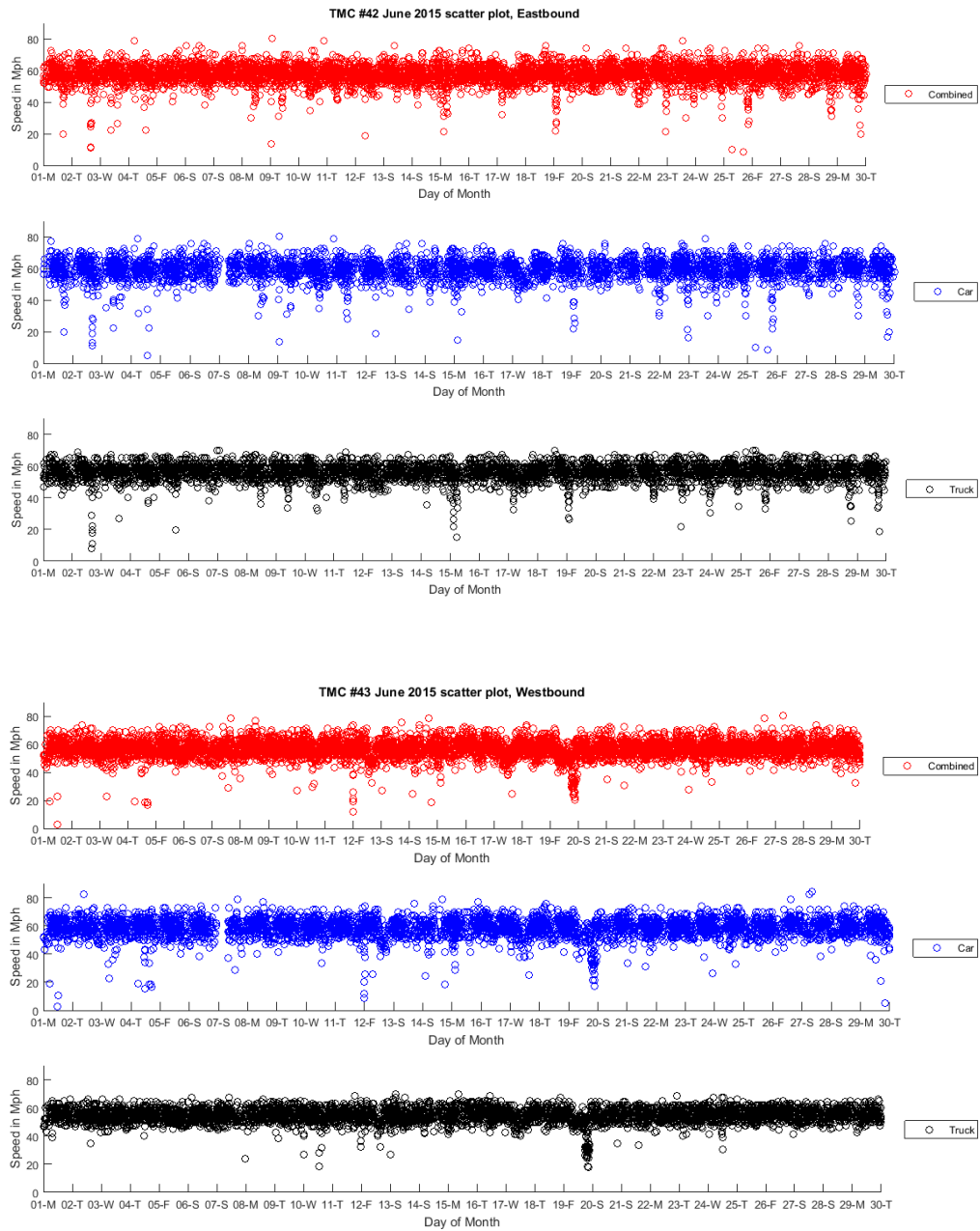


Below are the monthly plots per segment pair

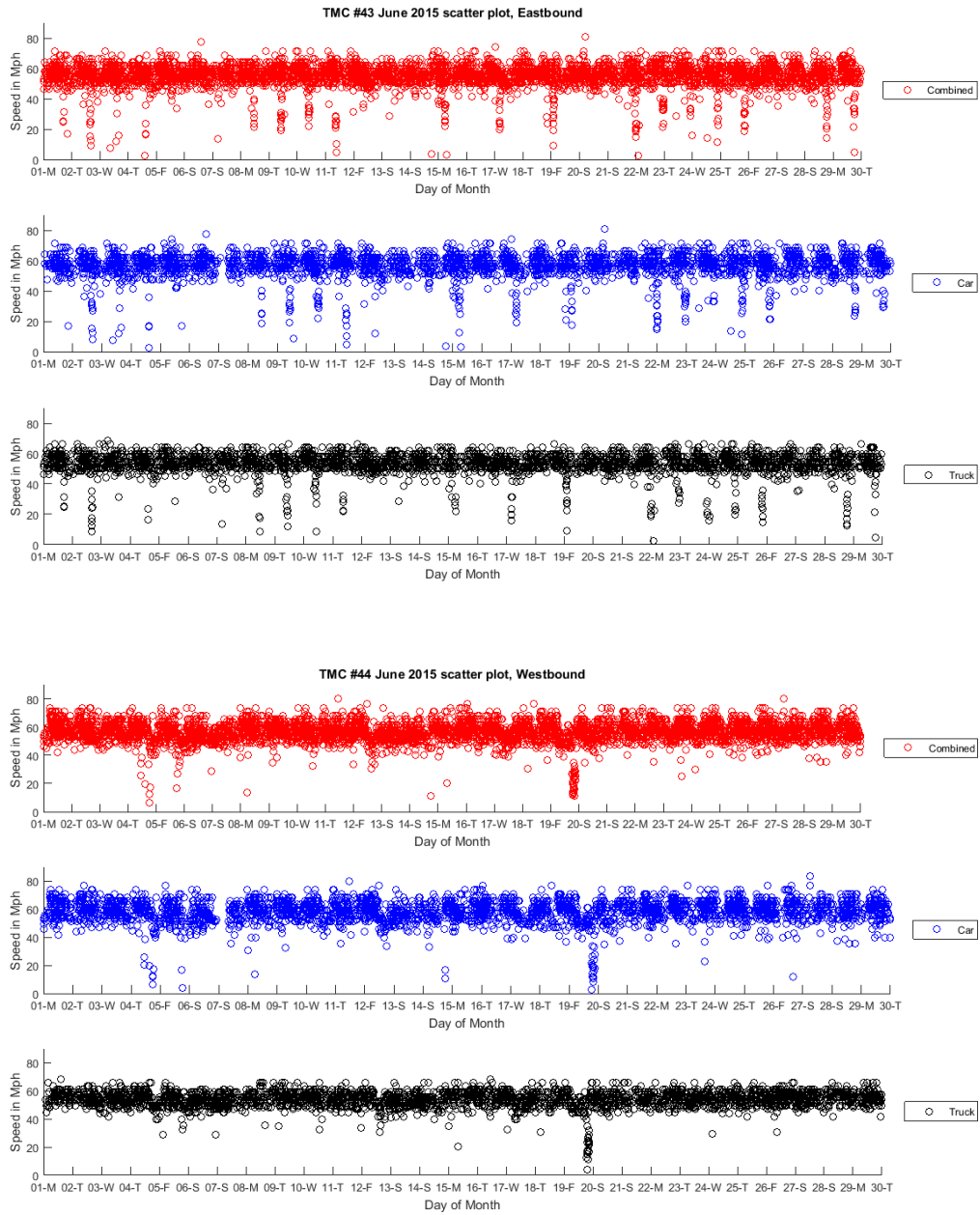
(41E – 42W)



(42E - 43W)



(43E - 44W)



Thank you,