Wastewater, Model Work

`Marlin derived from work by Brian Yandell

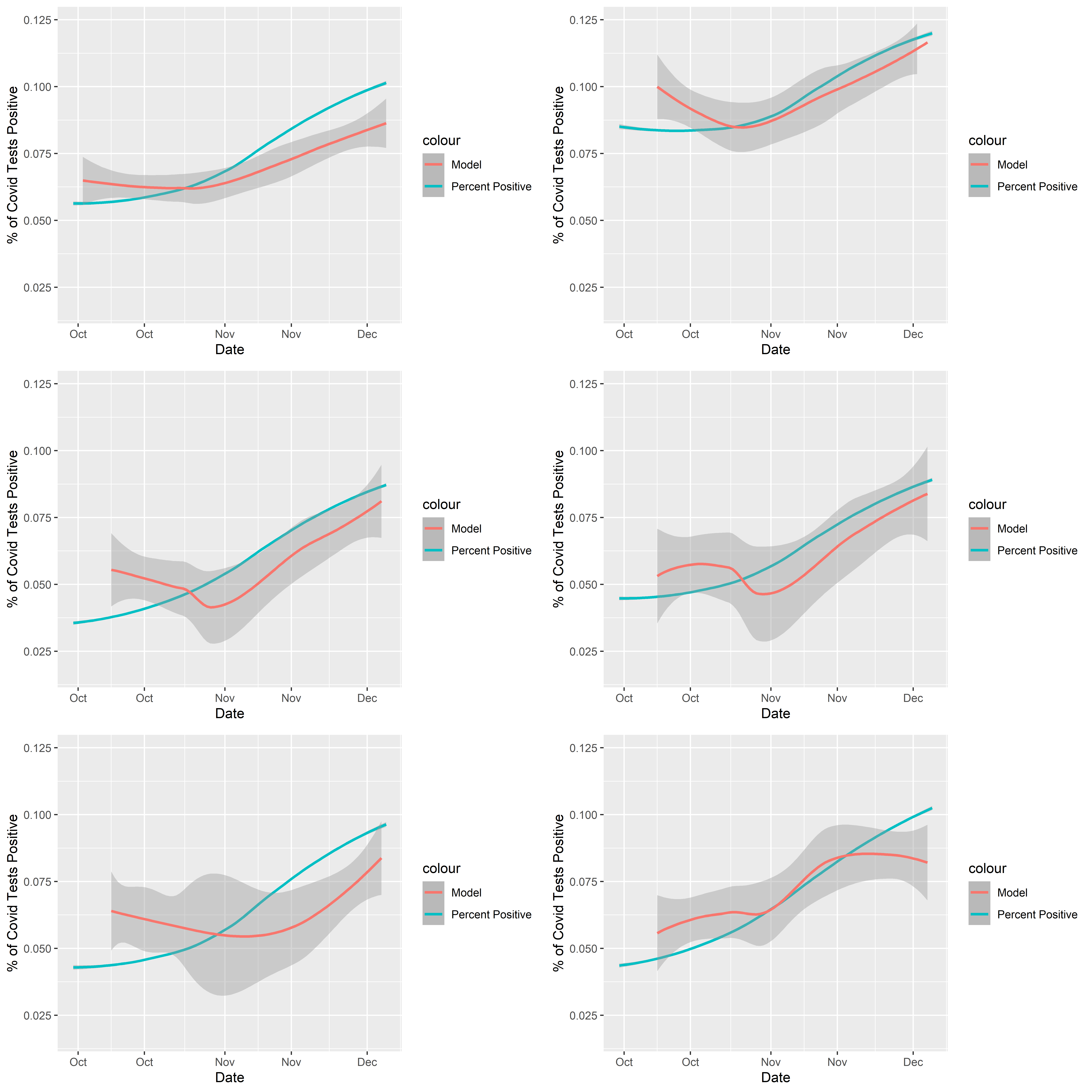
The code was derived from work by the DSI. This analysis seeks to model % of tests positive using wastewater Data. This model has logical reasons to be predictive but only finds moderate success when broken down by collection site. Particularly it consistently underpredicts the % positive rate in the P2 district.  
The Original R code file can be found in the [pandemic github repository](https://github.com/UW-Madison-DataScience/pandemic/blob/master/wastewater.Rmd).  
The Code for this R File can be found in the [Marlin Lee waste Water Work](https://github.com/MarlinRLee/Covid-Waste-Water-Exploration/blob/main/general%20model%20finding.Rmd)

#Conductivity, TSS, pH, Total\_Flow, N1, N2, AVG, PMMoV, Pct\_BCoV, TSS (mg/L) #ToDo: #1/2 looking at R^2 over a bunch of timeshifts #1) # Model W/O Site: log(N1), log(PMMoV), log(N2), #Total\_Flow or log(Total\_Flow) # add: Compare smooth cases vs smooth model #2) # Devide P2 and compare #3) # try to define 3 #new questions: #How to use Site // How to involve TotalFlow #old questions #TSS // P2 // Shifting Curves

## [1] "Time shifted 10 Days"

## [1] "R^2: 0.611544930783671"

##   
## Call:  
## lm(formula = roll ~ log(N2) + log(N1) + log(PMMoV) + Site, data = Inner)  
##   
## Coefficients:  
## (Intercept) log(N2) log(N1) log(PMMoV) SiteMMSD P11   
## 0.1796998 -0.0016856 0.0116780 -0.0129934 0.0037206   
## SiteMMSD P18 SiteMMSD P2 SiteMMSD P7 SiteMMSD P8   
## -0.0014636 0.0356552 -0.0035132 -0.0009565



Points

