

Exploratory Data Analysis of COVID-19 Cases 23 March 2020

Jessica Randall

Loading data

Here I load in data from the projects from which I have collected and cleaned data:

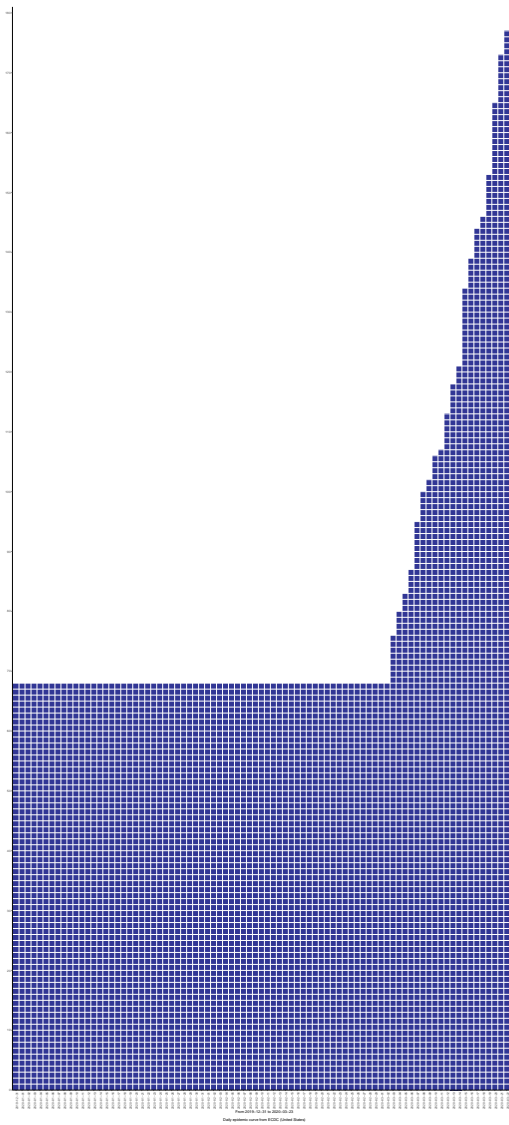
Our World in Data's ECDC data New York Times data

Cases by source

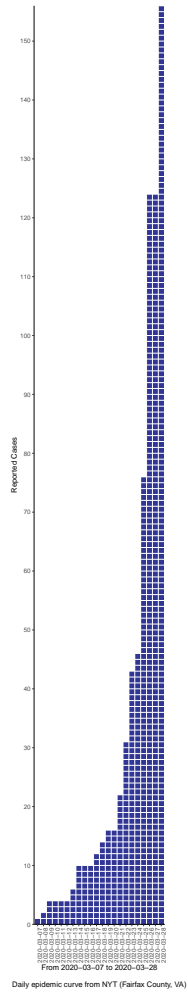
Cases reported by ECDC

```
us_inc <- ecdc_cases %>%  
  filter(loc == "United States")  
  
EpiCurve(us_inc,  
  date = "date_rec",  
  period = "day",  
  color = "#313695",  
  xlabel=sprintf("From %s to %s", min(us_inc$date_rec), max(us_inc$date_rec)),  
  note = "Daily epidemic curve from ECDC (United States)")
```

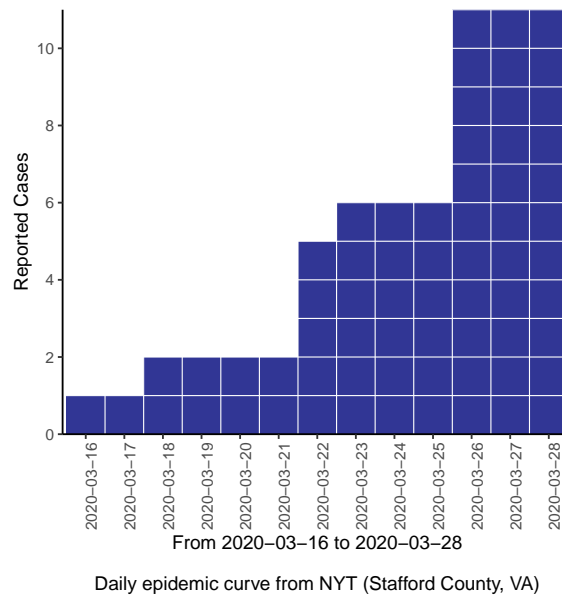
```
## Warning: `data_frame()` is deprecated as of tibble 1.1.0.  
## Please use `tibble()` instead.  
## This warning is displayed once every 8 hours.  
## Call `lifecycle::last_warnings()` to see where this warning was generated.
```



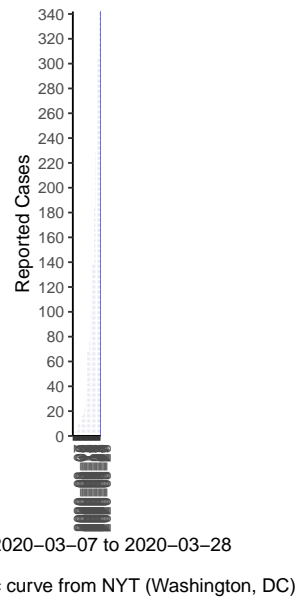
Cases reported by NYT in Fairfax County



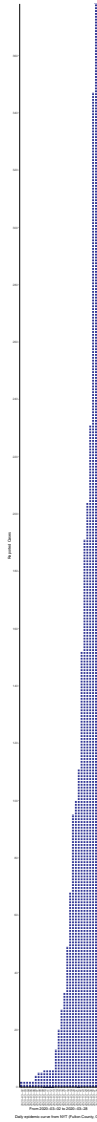
Cases reported by NYT in Stafford County



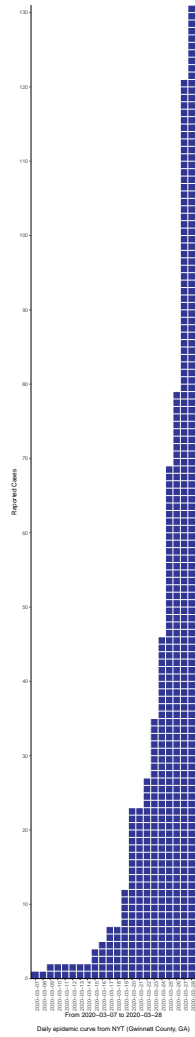
Cases reported by NYT in Washington DC



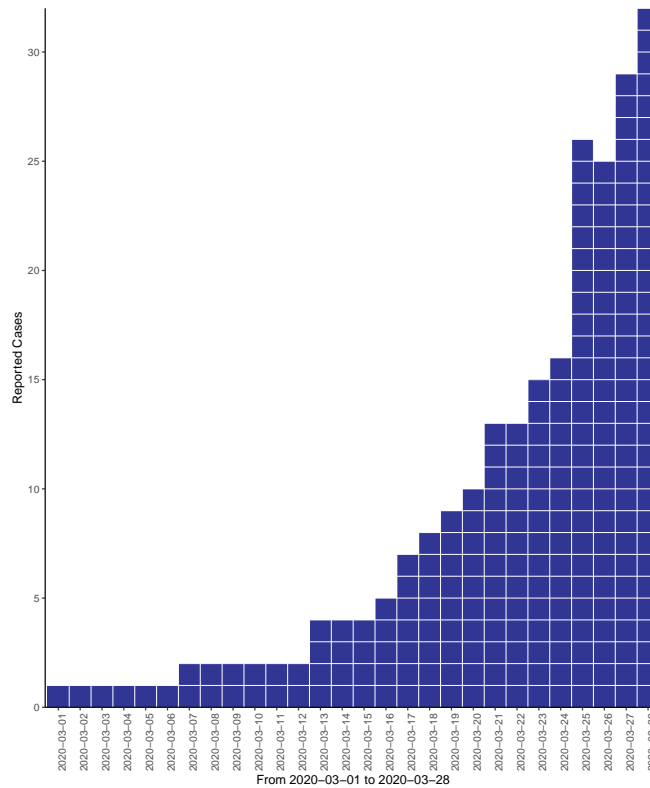
Cases reported by NYT in Fulton County



Cases reported by NYT in Gwinnett County

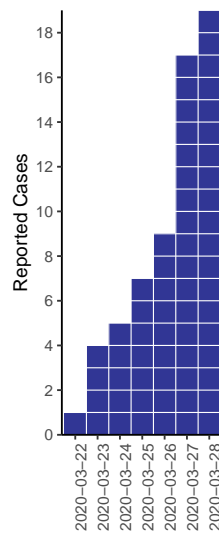


Cases reported by NYT in Manatee County



Daily epidemic curve from NYT (Manatee County, FL)

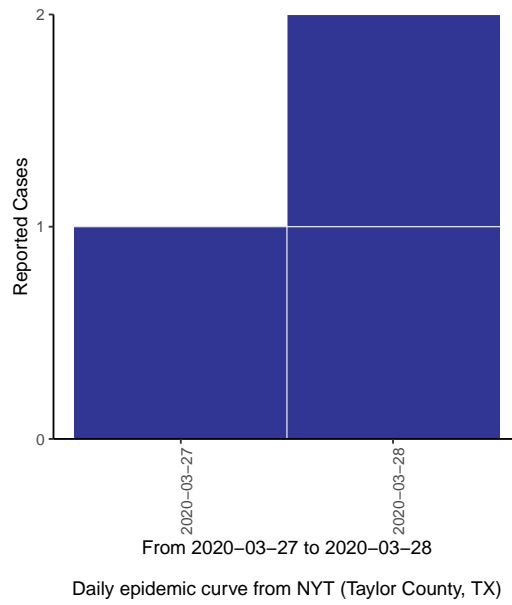
Cases reported by NYT in Madison County



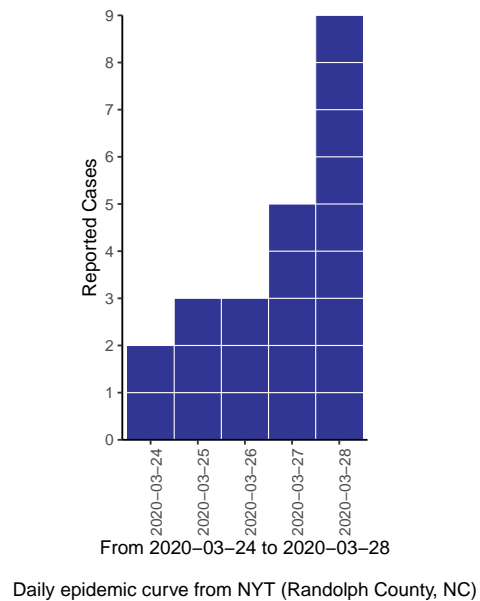
From 2020-03-22 to 2020-03-28

Daily epidemic curve from NYT (Madison County, NY)

Cases reported by NYT in Taylor County



Cases reported by NYT in Randolph County



Session information and References {-}

```
## [1] "Mon Mar 30 18:30:04 2020"

## R version 3.6.3 (2020-02-29)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Debian GNU/Linux 9 (stretch)
##
## Matrix products: default
## BLAS: /usr/lib/openblas-base/libblas.so.3
## LAPACK: /usr/lib/libopenblas-r0.2.19.so
##
```



```

## locale:
## [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
## [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
## [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
## [7] LC_PAPER=en_US.UTF-8     LC_NAME=C
## [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
## [1] RColorBrewer_1.1-2 EpiCurve_2.2-1    timeDate_3043.102 scales_1.1.0
## [5] ISOweek_0.6-2      assertr_2.7       here_0.1         knitr_1.28
## [9] forcats_0.5.0      stringr_1.4.0     dplyr_0.8.5      purrr_0.3.3
## [13] readr_1.3.1        tidyr_1.0.2       tibble_3.0.0     ggplot2_3.3.0
## [17] tidyverse_1.3.0
##
## loaded via a namespace (and not attached):
## [1] Rcpp_1.0.4          lubridate_1.7.4    lattice_0.20-40    assertthat_0.2.1
## [5] rprojroot_1.3-2     digest_0.6.25      R6_2.4.1           cellranger_1.1.0
## [9] backports_1.1.5     reprex_0.3.0       evaluate_0.14      httr_1.4.1
## [13] pillar_1.4.3        rlang_0.4.5        readxl_1.3.1       rstudioapi_0.11
## [17] rmarkdown_2.1       munsell_0.5.0      broom_0.5.5        compiler_3.6.3
## [21] modelr_0.1.6         xfun_0.12          pkgconfig_2.0.3    htmltools_0.4.0
## [25] tidyselect_1.0.0    bookdown_0.18      fansi_0.4.1        crayon_1.3.4
## [29] dbplyr_1.4.2        withr_2.1.2        grid_3.6.3         nlme_3.1-145
## [33] jsonlite_1.6.1      gtable_0.3.0       lifecycle_0.2.0    DBI_1.1.0
## [37] pacman_0.5.1        magrittr_1.5        cli_2.0.2           stringi_1.4.6
## [41] farver_2.0.3        fs_1.3.2           xml2_1.2.5          ellipsis_0.3.0
## [45] generics_0.0.2      vctrs_0.2.4        tools_3.6.3         glue_1.3.2
## [49] hms_0.5.3           yaml_2.2.1          colorspace_1.4-1    rvest_0.3.5
## [53] haven_2.2.0

```