

A simple *Science* Template

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September 8, 2021

Abstract

** Things to be edited: Remove any language associating a country's ownership of a variant. It comes off as accusatory. Change Dade figures to Miami-Dade and change South Africa to B.1.351 Maybe save any conclusive commentary for the conclusion. Leave the paragraphs after each section as pure 'results' analysis Holiday/Fatalities missing dallas and houston

Introduction. Explain why the study was necessary and explain what we looked at.

1 The Impact of Virulent COVID-19 Variant Strains

In figures 2-6, the 14 day moving average of daily new COVID-19 cases, hospitalizations, and fatalities per day in 9 counties are displayed on a logarithmic scale (\log_{10}) with vertical line overlays representing the dates when five sophisticated COVID-19 variant strains were first detected in their respective population. The counties assessed are Miami-Dade County, Florida; Broward County, Florida; Orange County, Florida; Los Angeles County, California; San Bernardino County, California; San Francisco County, California; Travis County, Texas; Dallas County, Texas; and Harris County, Texas. The genomic isolation dates of the COVID-19 variant strains in figures 2-10 are belonging to: CAL.20C (of lineage B.1.429), first isolated in California; B.1.1.207, first isolated in Nigeria; B.1.1.7 (aka VOC-202012/01, and as lineage B.1.1.7, or 20I/501Y.V1), first isolated in the United Kingdom; B.1.351 (aka 20H/501Y.V2, formerly known as 20C/501Y.V2), first isolated in South Africa; and P.1 (of lineage B.1.1.248), first isolated in Tokyo, and colloquially referred to as the Brazilian variant.

1.1 COVID-19 Variants and Daily New COVID-19 Cases

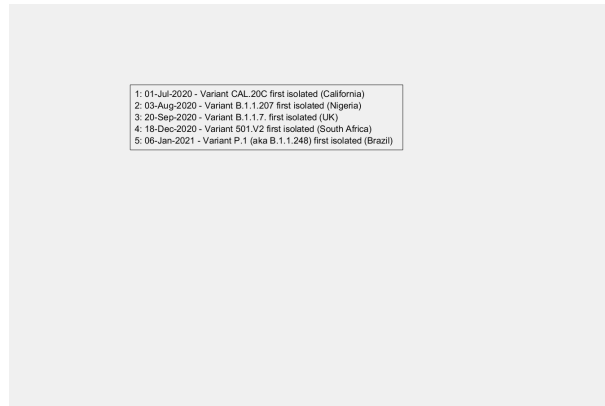


Figure 1: Listed above are five uniquely infectious variant strains of COVID-19, listed corresponding to the date in which they were first genetically sequenced and isolated in their respective region.

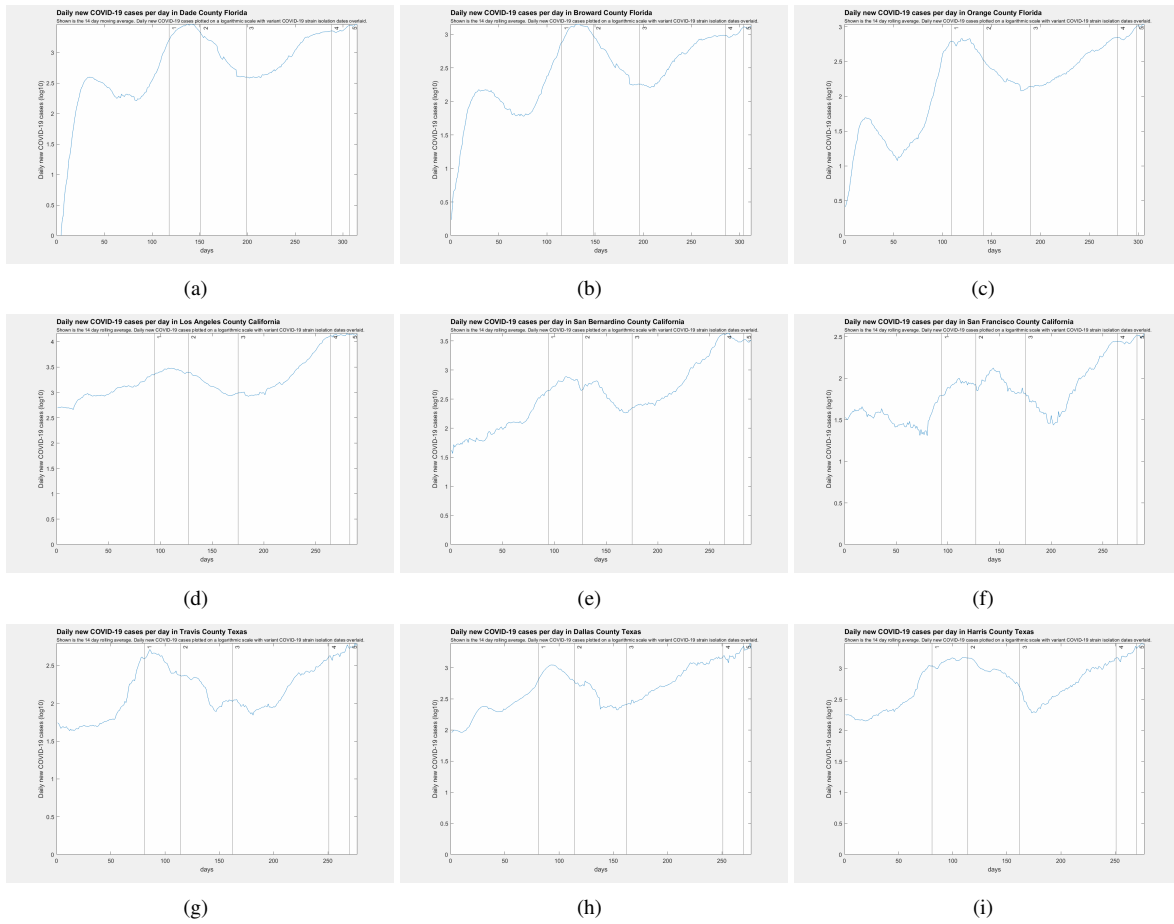


Figure 2: (a) blah (b) blah (c) blah (d) blah

1.2 COVID-19 Variants and Daily New COVID-19 Hospitalizations

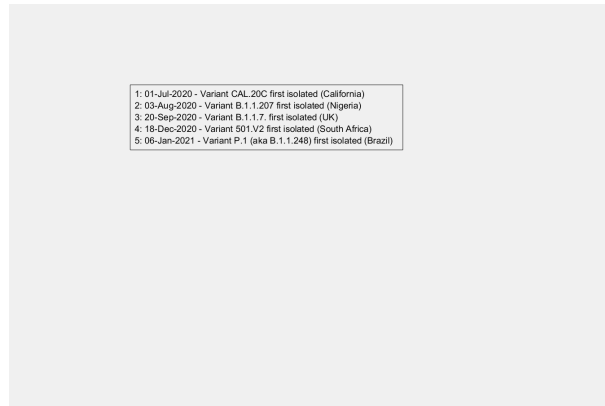


Figure 3: Listed above are five uniquely infectious variant strains of COVID-19, listed corresponding to the date in which they were first genetically sequenced and isolated in their respective region.

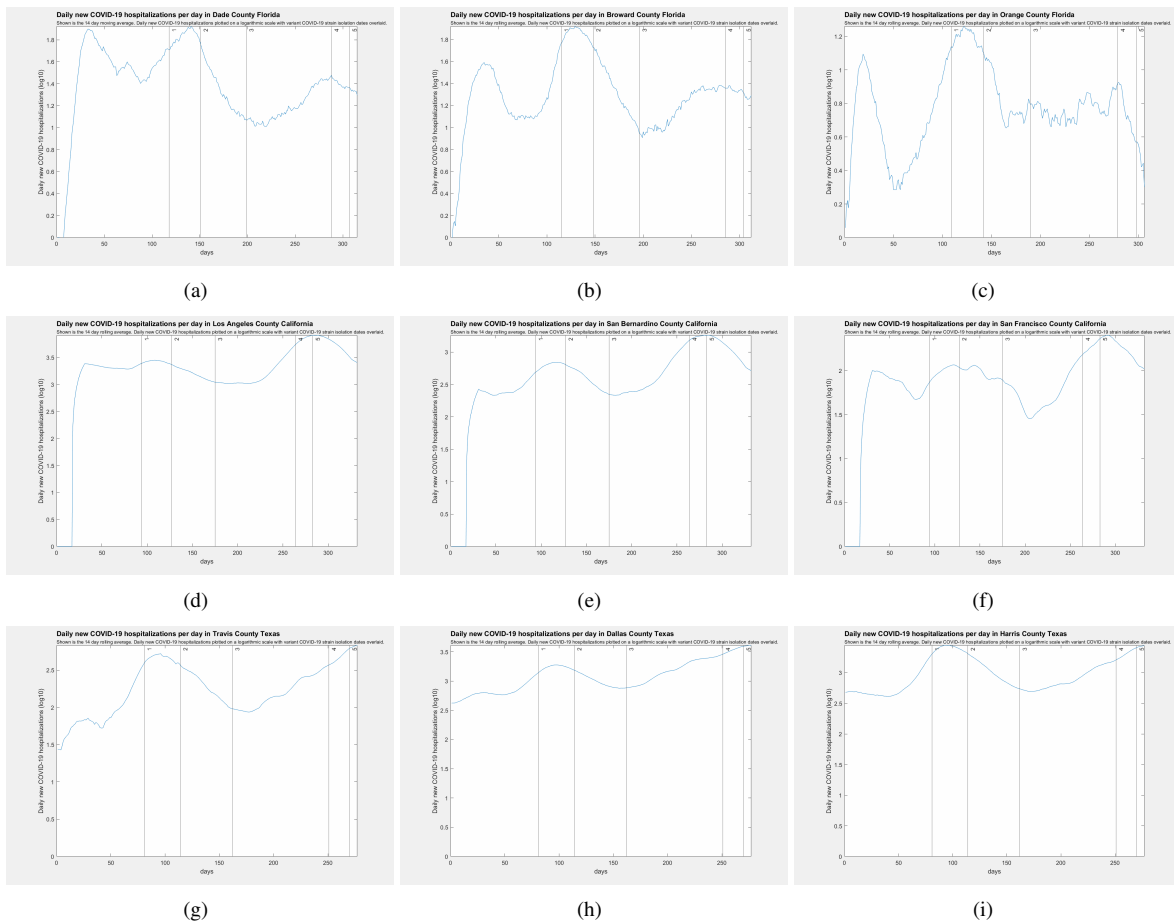


Figure 4: (a) blah (b) blah (c) blah (d) blah

1.3 COVID-19 Variants and Daily New COVID-19 Fatalities

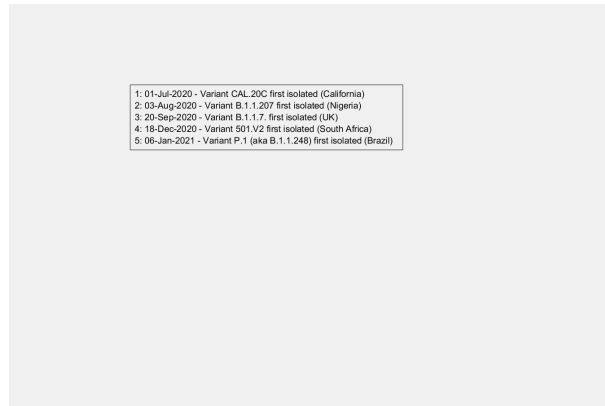


Figure 5: Listed above are five uniquely infectious variant strains of COVID-19, listed corresponding to the date in which they were first genetically sequenced and isolated in their respective region.

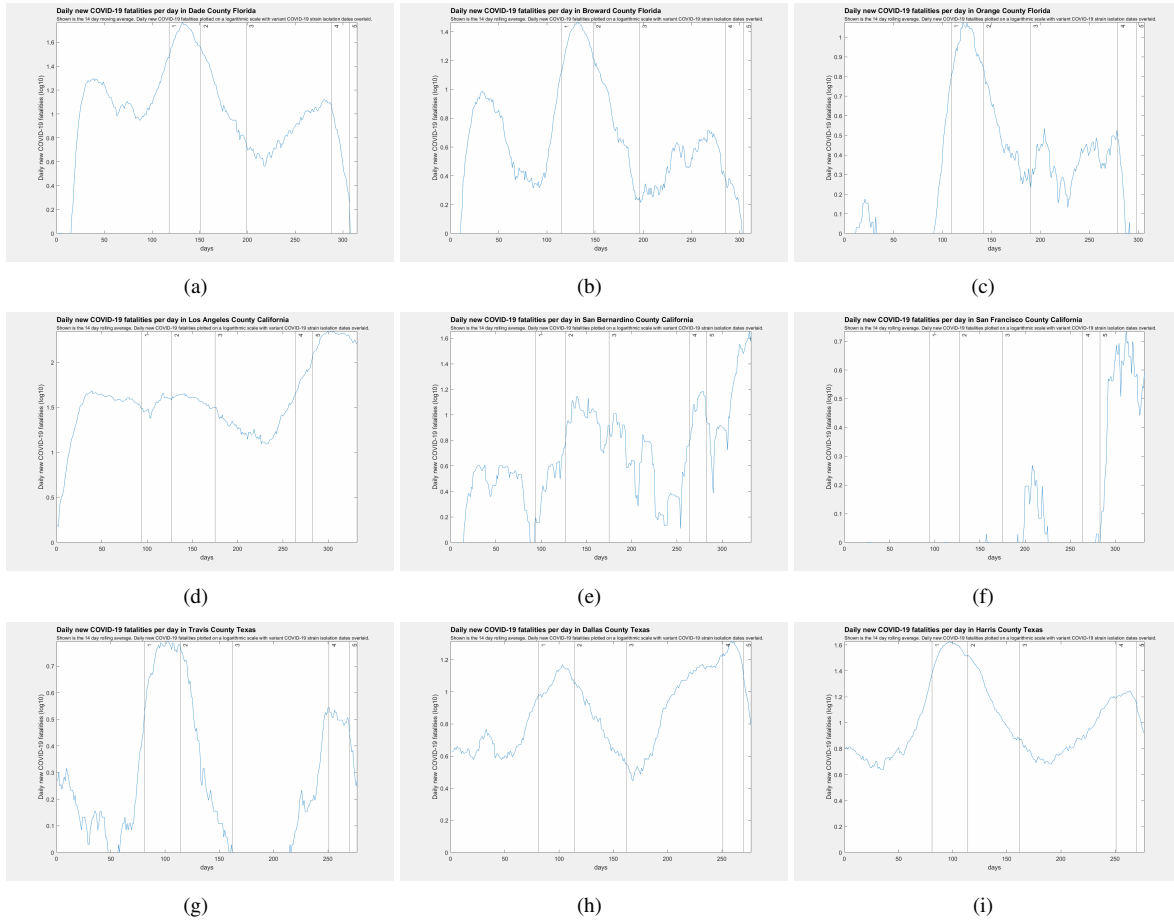


Figure 6: (a) blah (b) blah (c) blah (d) blah

1.4 County-Level Statistics on COVID-19 Variant Strains

1.5 The CAL.20C Variant

1.6 How CAL.20C Dominated

2 The Impact of National Holidays

In figures X-X, the 14 day moving average of daily new COVID-19 cases, hospitalizations and fatalities per day in 9 counties is displayed on a logarithmic scale (\log_{10}) with vertical line overlays representing the dates of several national and seasonal holidays have occurred. The counties assessed are Miami-Dade County, Florida; Broward County, Florida; Orange County, Florida; Los Angeles County, California; San Bernardino County, California; San Francisco County, California; Travis County, Texas; Dallas County, Texas; and Harris County, Texas.

2.1 Holidays and Daily New COVID-19 Cases



Figure 7

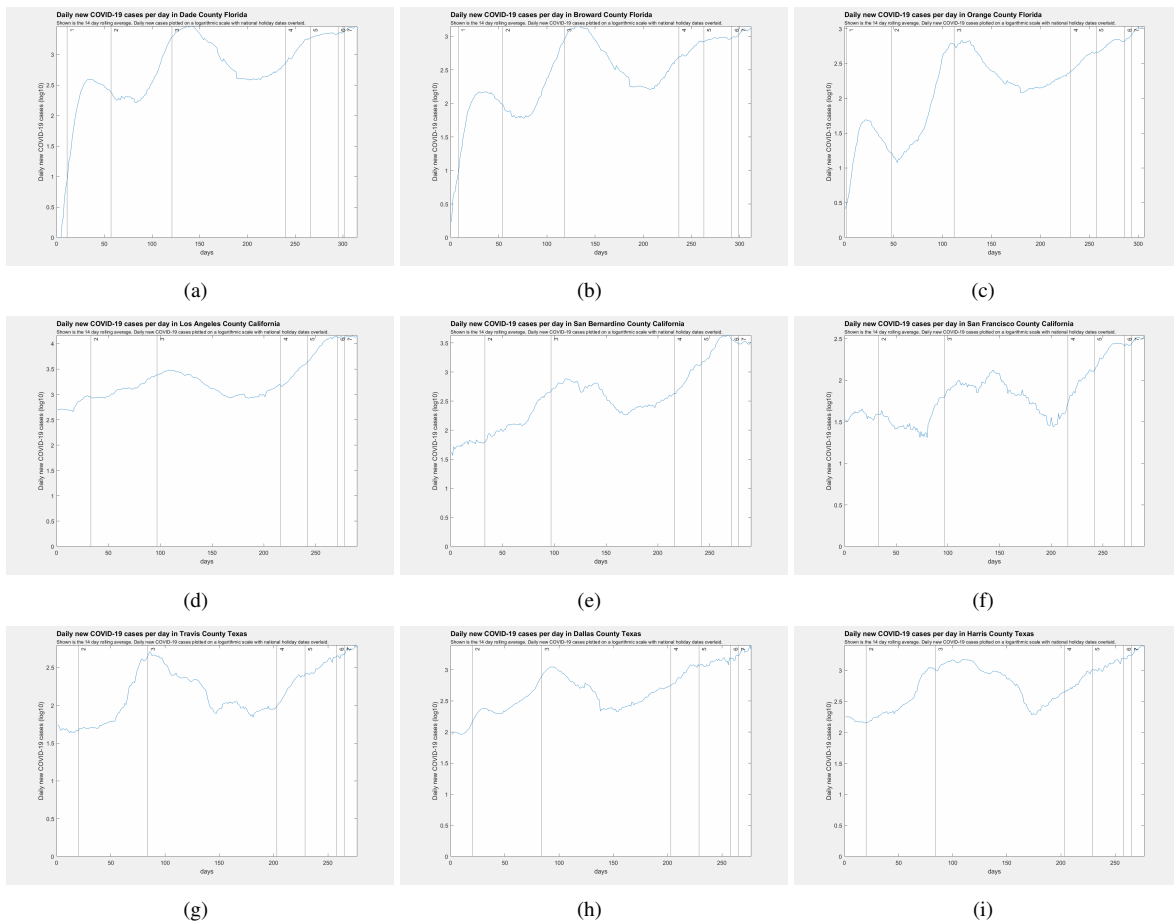


Figure 8: (a) blah (b) blah (c) blah (d) blah

2.2 Holidays and Daily New COVID-19 Hospitalizations



Figure 9

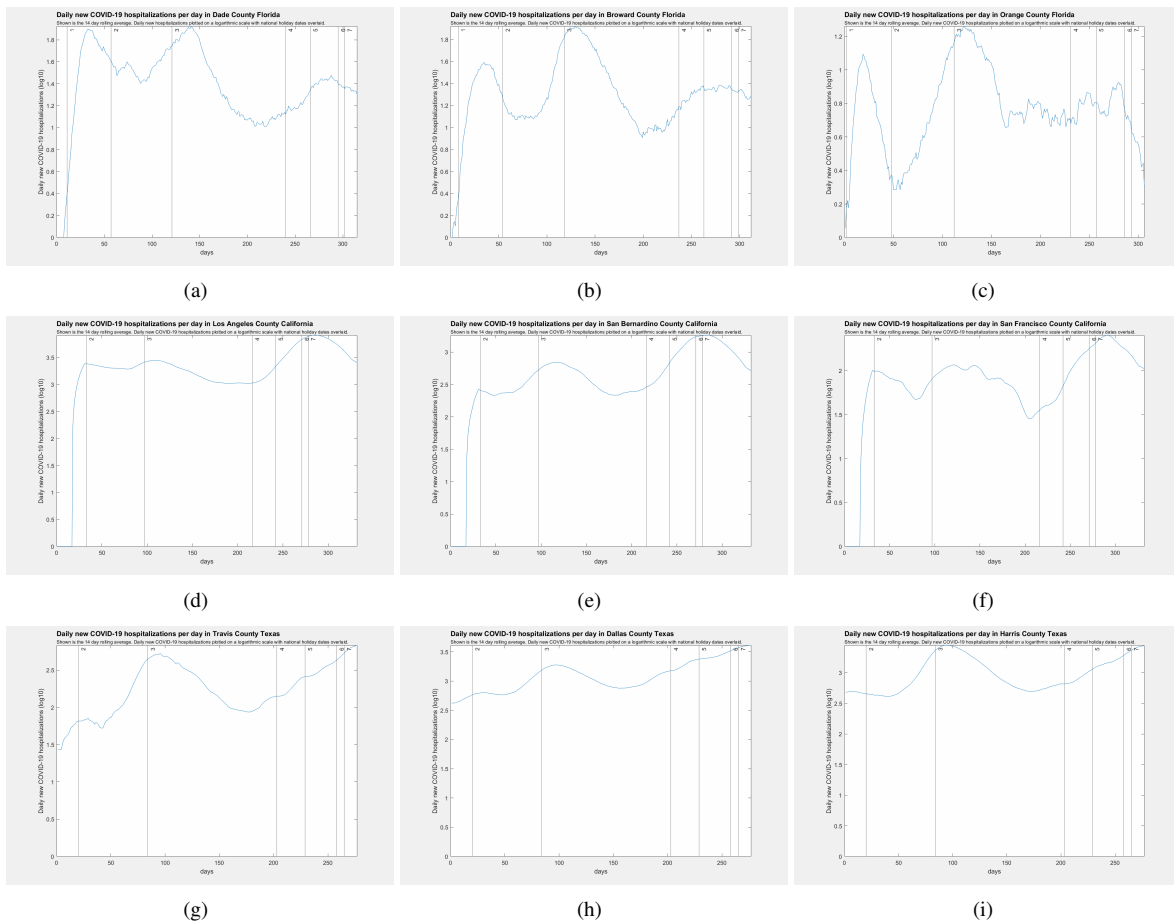


Figure 10: (a) blah (b) blah (c) blah (d) blah

2.3 Holidays and Daily New COVID-19 Fatalities



Figure 11

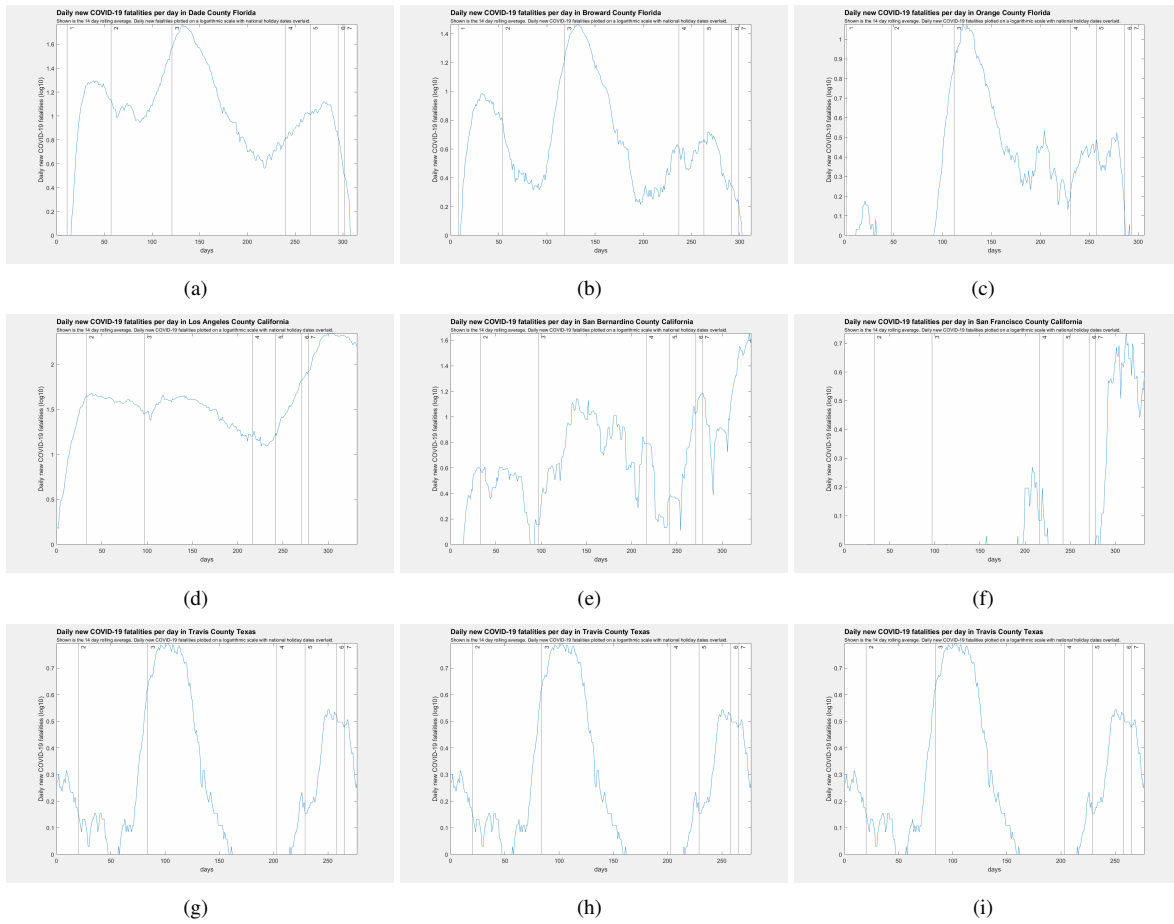


Figure 12: (a) blah (b) blah (c) blah (d) blah * add dallas and harris county here

2.4 County-Level Statistics on National Holidays and COVID-19

2.5 The Impact of a National Holiday

2.6 Subsection

3 Government Mask Order Mandates

In figures XX-XX, the 14 day moving average of daily new COVID-19 cases, hospitalizations, and fatalities per day in 9 counties is displayed on a logarithmic scale (\log_{10}) with vertical line overlays representing the dates in which local and state mask order dates were initiated. The counties assessed are Miami-Dade County, Florida; Broward County, Florida; Orange County, Florida; Los Angeles County, California; San Bernardino County, California; San Francisco County, California; Travis County, Texas; Dallas County, Texas; and Harris County, Texas.

3.1 Mask Order Mandates and Daily New COVID-19 Cases

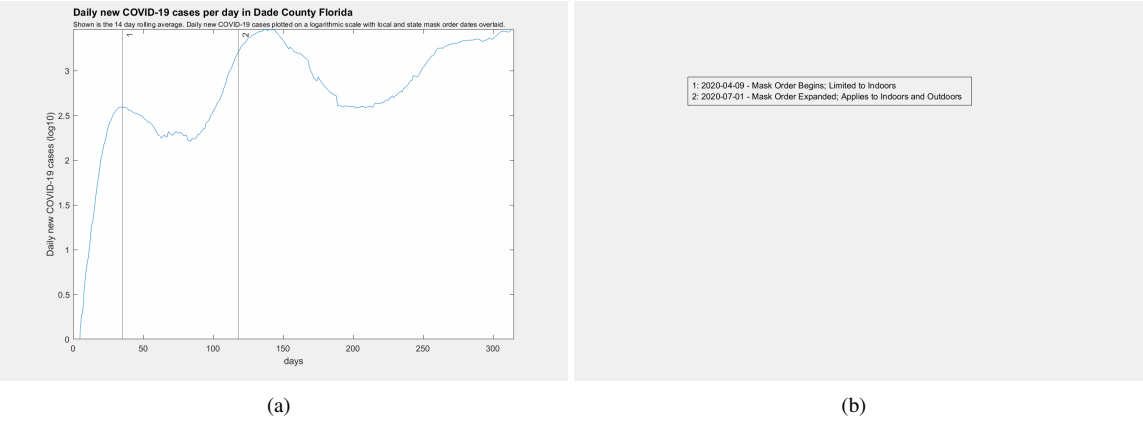


Figure 13: (a) blah (b) blah

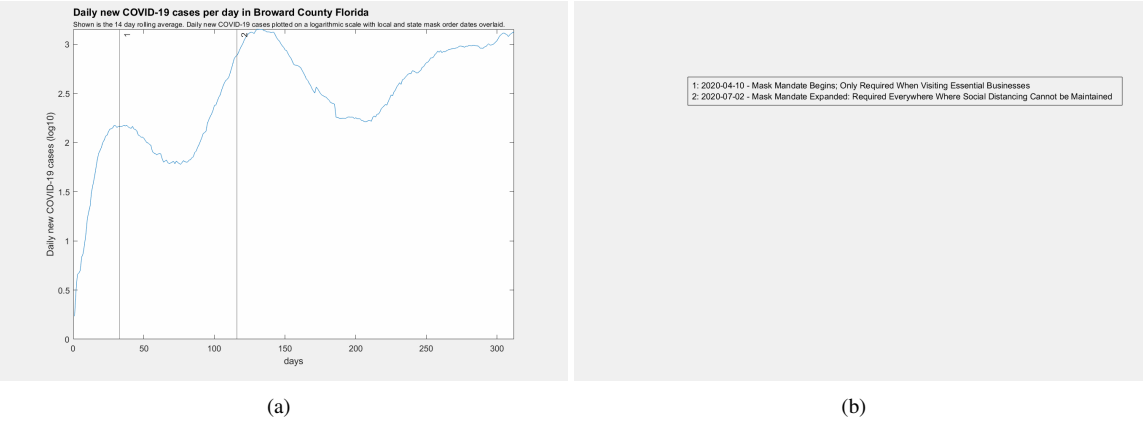


Figure 14: (a) blah (b) blah

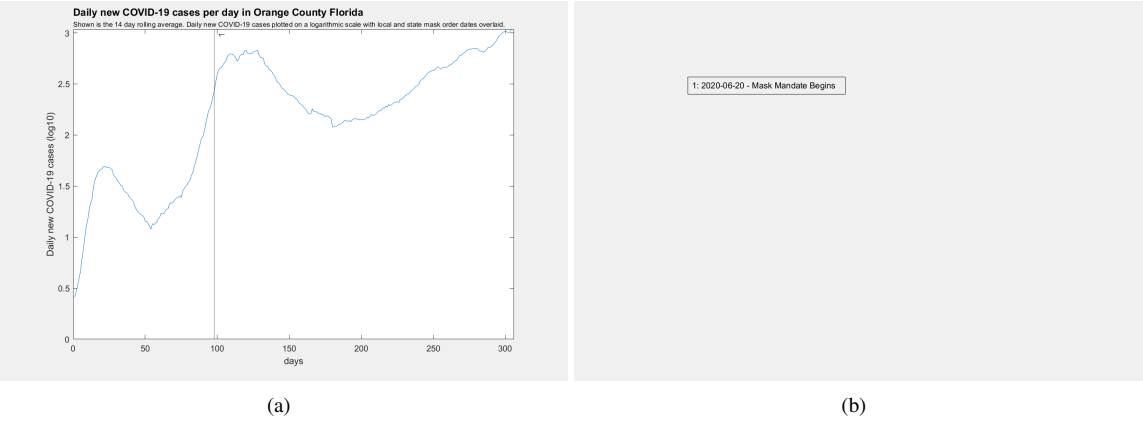


Figure 15: (a) blah (b) blah

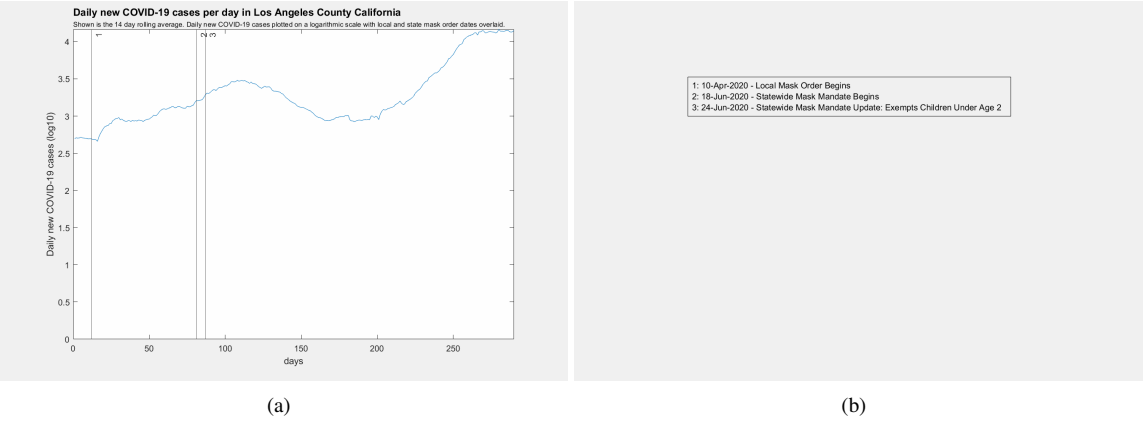


Figure 16: (a) blah (b) blah

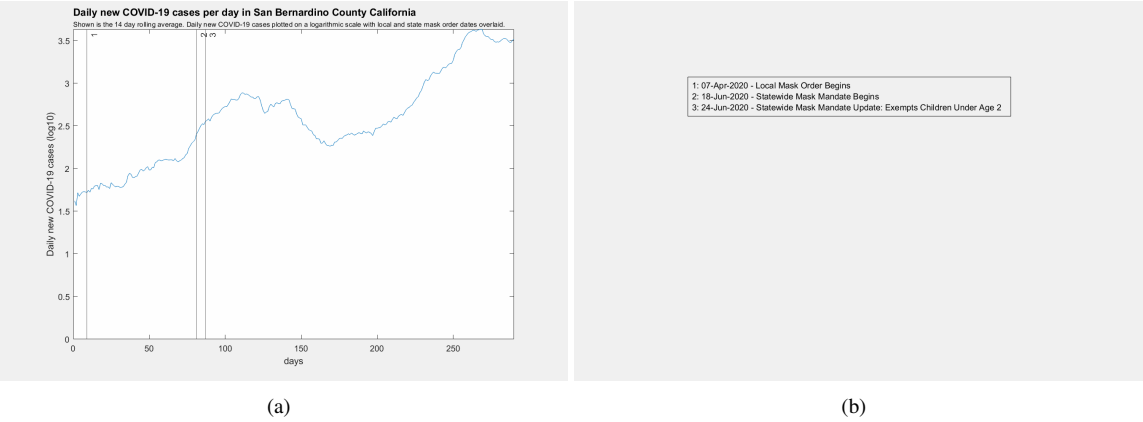


Figure 17: (a) blah (b) blah

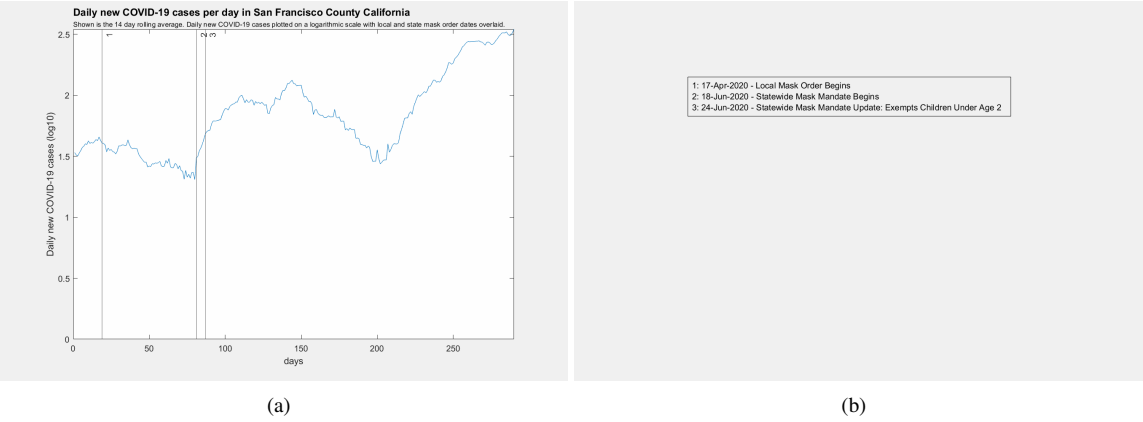
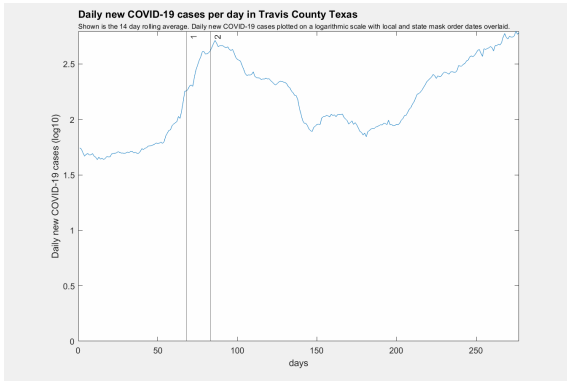


Figure 18: (a) blah (b) blah

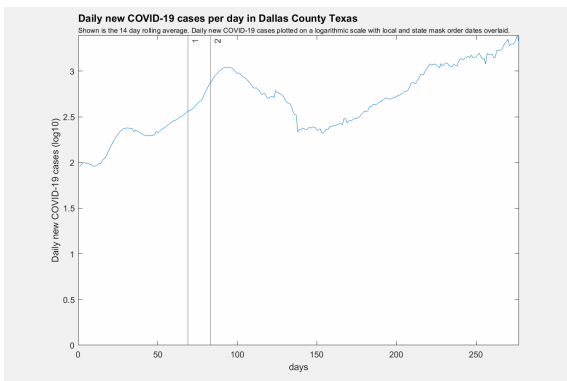


(a)



(b)

Figure 19: (a) blah (b) blah

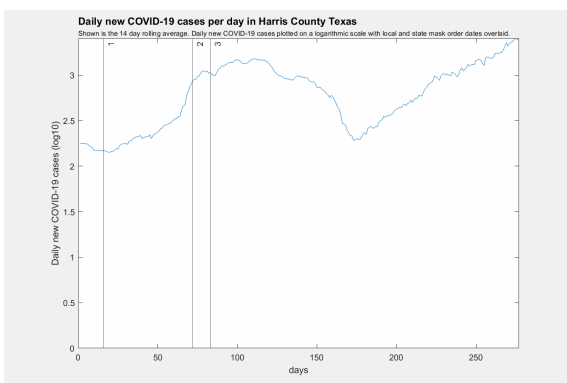


(a)



(b)

Figure 20: (a) blah (b) blah



(a)



(b)

Figure 21: (a) blah (b) blah

3.2 Mask Order Mandates and Daily New COVID-19 Hospitalizations

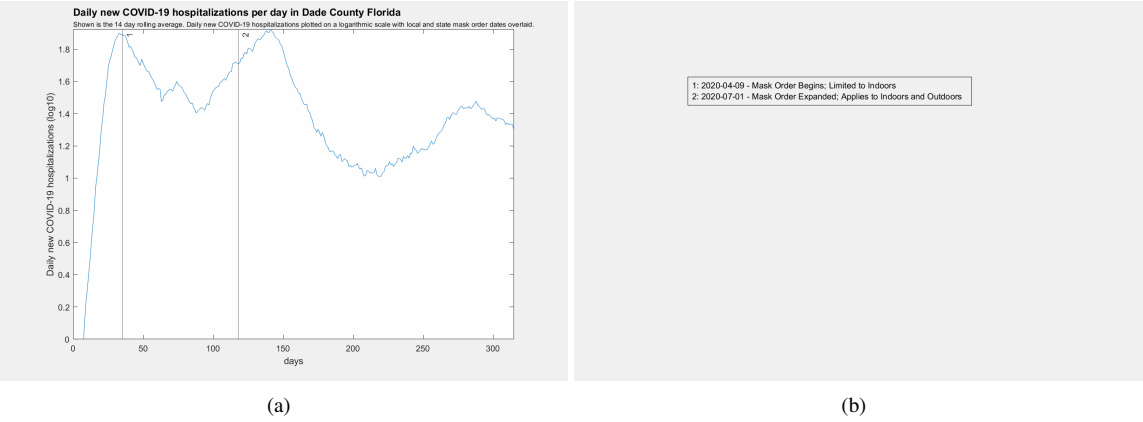


Figure 22: (a) blah (b) blah

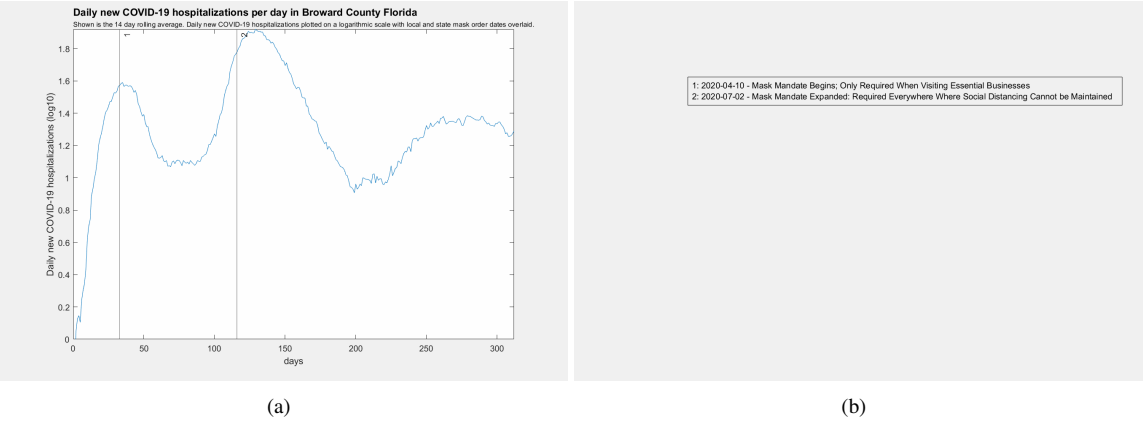


Figure 23: (a) blah (b) blah

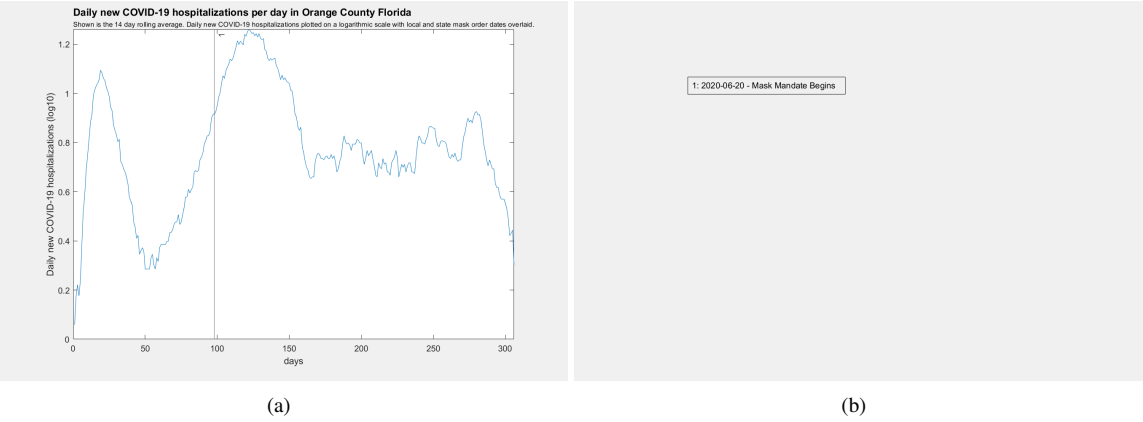


Figure 24: (a) blah (b) blah

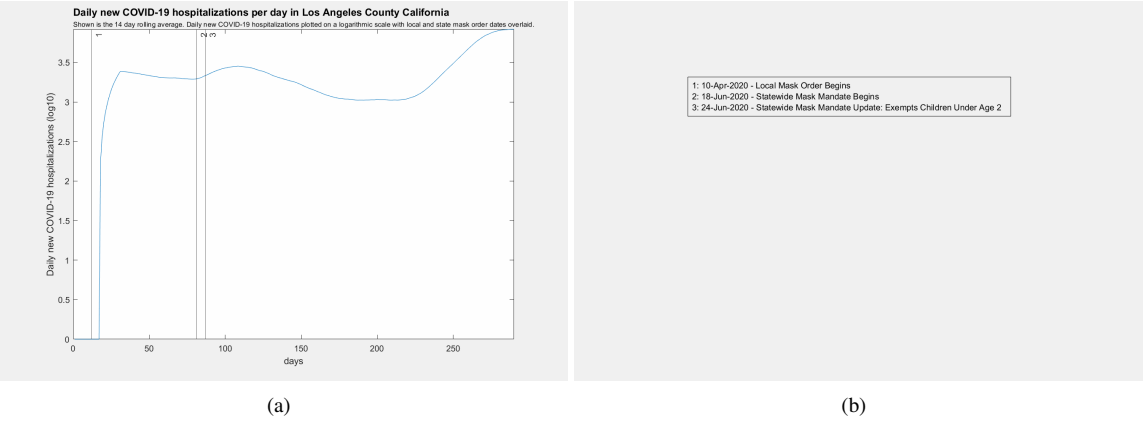


Figure 25: (a) blah (b) blah

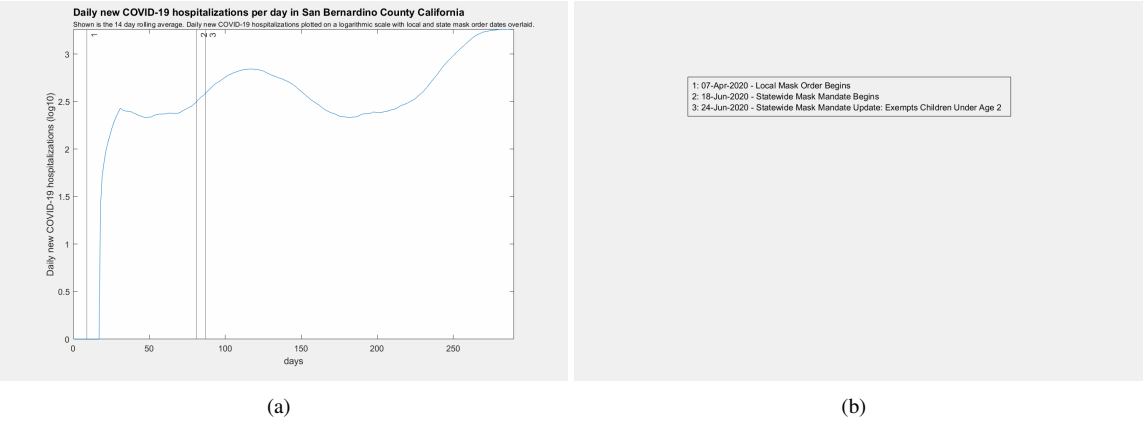


Figure 26: (a) blah (b) blah

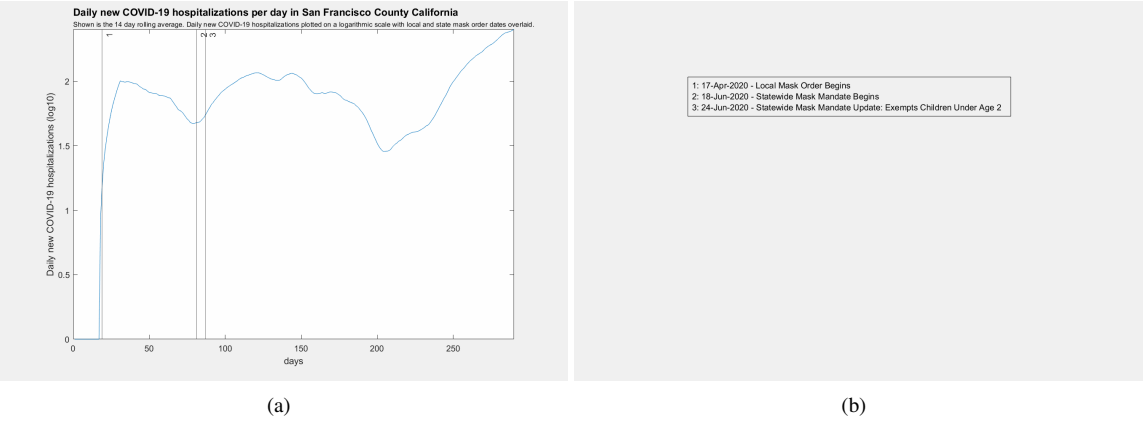
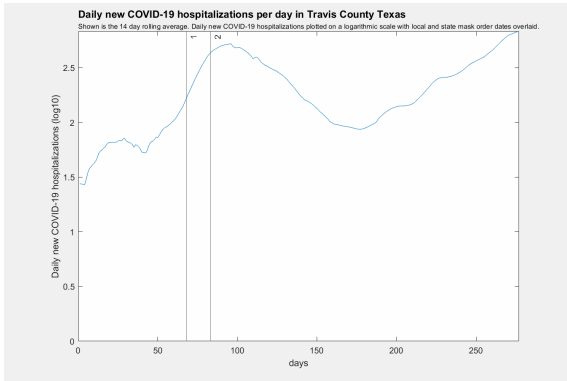


Figure 27: (a) blah (b) blah

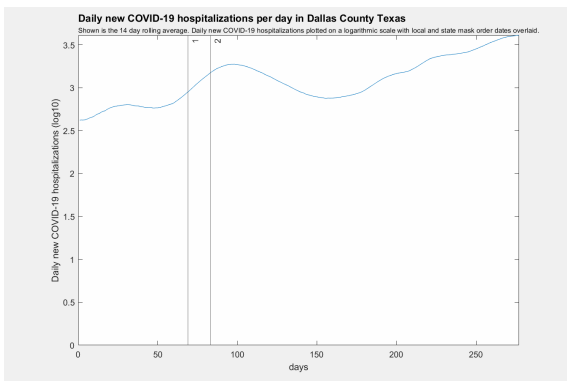


(a)



(b)

Figure 28: (a) blah (b) blah

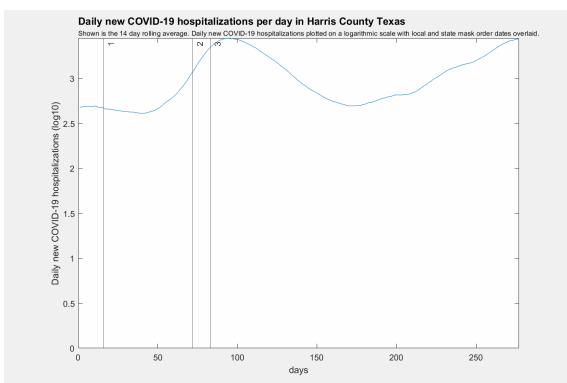


(a)

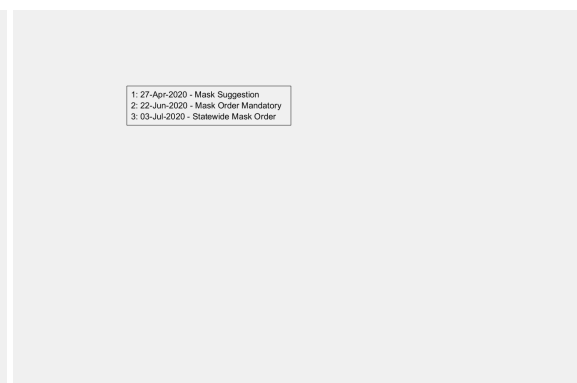


(b)

Figure 29: (a) blah (b) blah



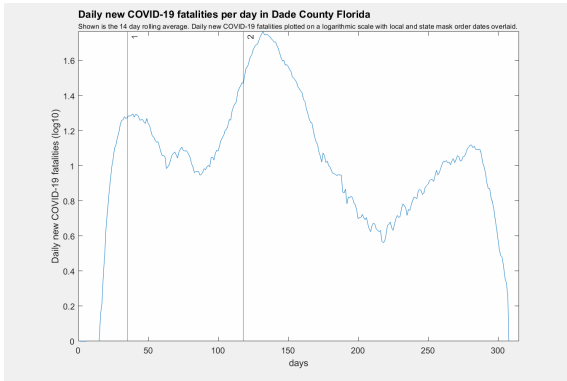
(a)



(b)

Figure 30: (a) blah (b) blah

3.3 Mask Order Mandates and Daily New COVID-19 Cases

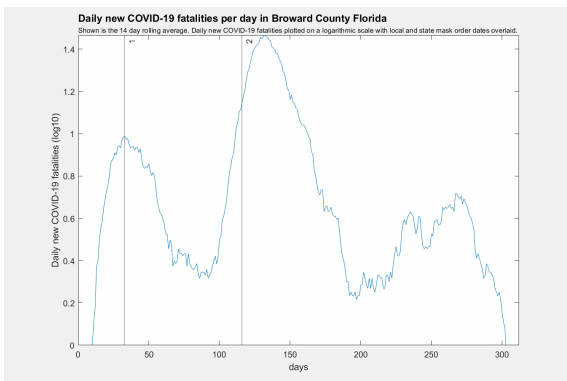


(a)



(b)

Figure 31: (a) blah (b) blah

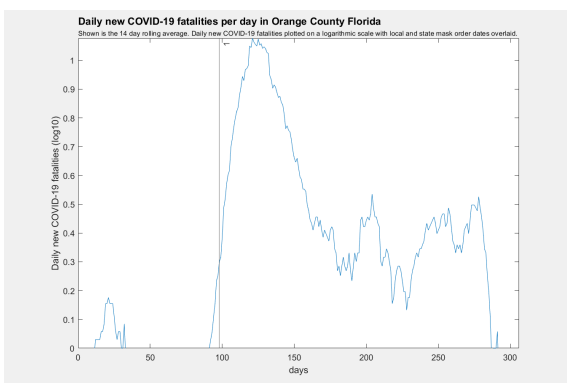


(a)

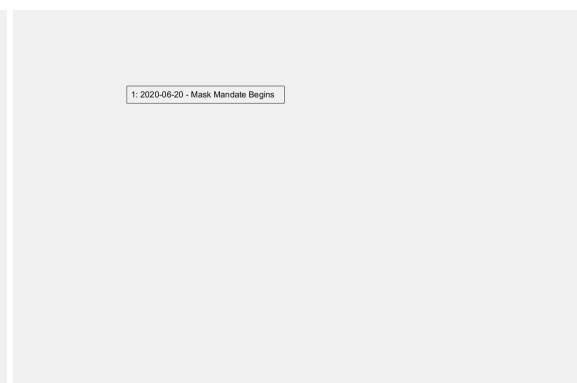


(b)

Figure 32: (a) blah (b) blah



(a)



(b)

Figure 33: (a) blah (b) blah

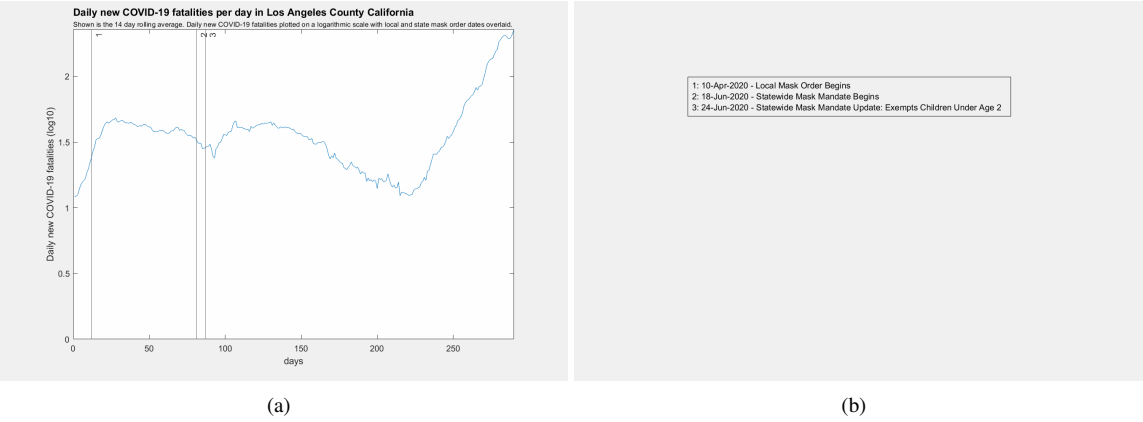


Figure 34: (a) blah (b) blah

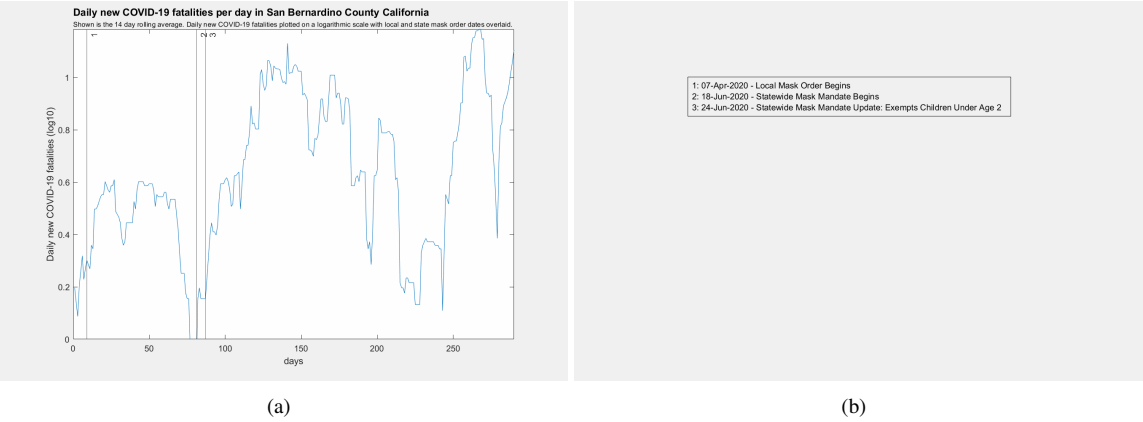


Figure 35: (a) blah (b) blah

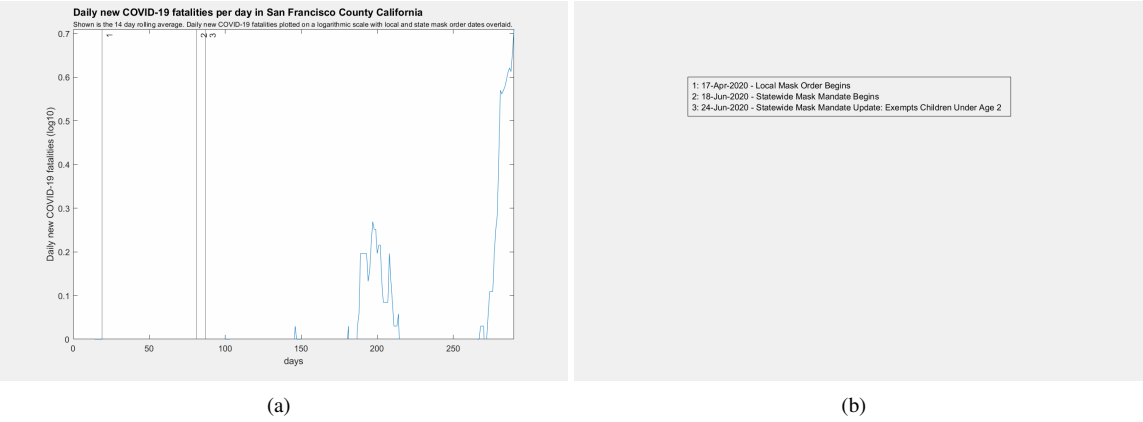


Figure 36: (a) blah (b) blah

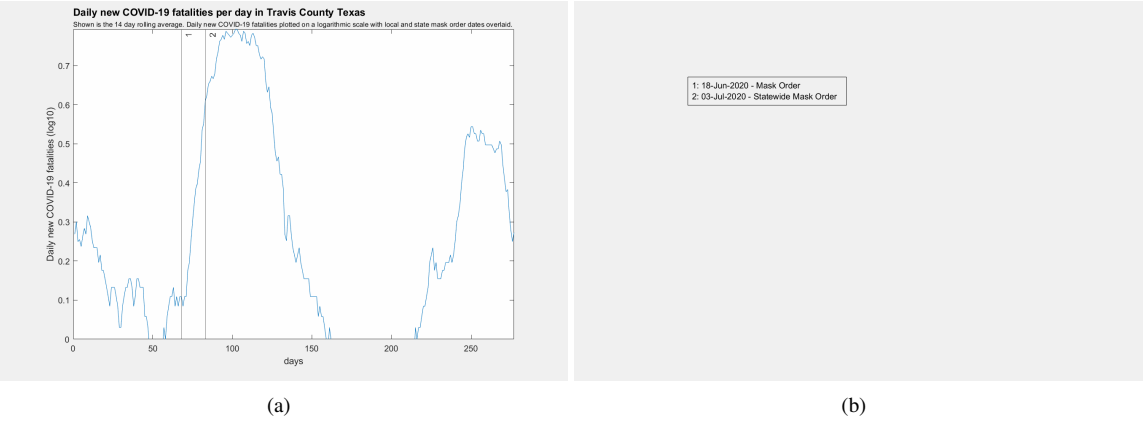


Figure 37: (a) blah (b) blah

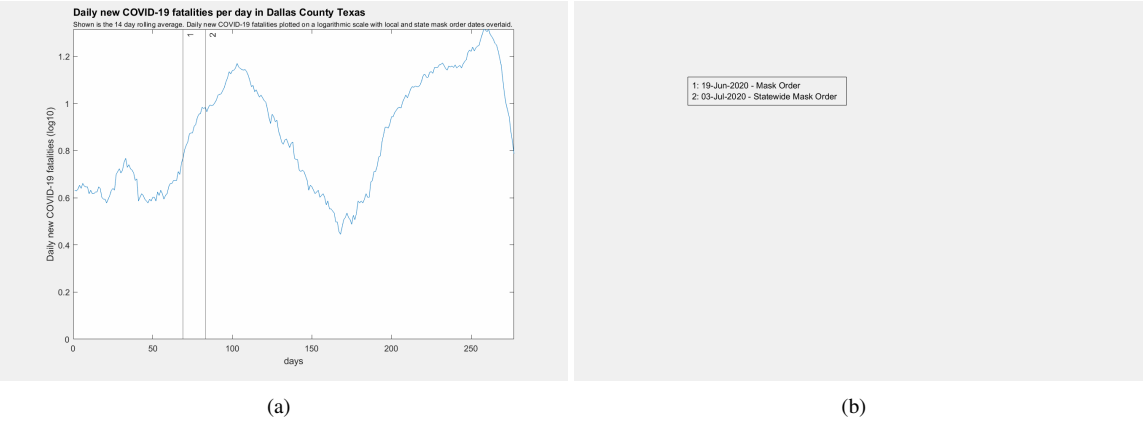


Figure 38: (a) blah (b) blah

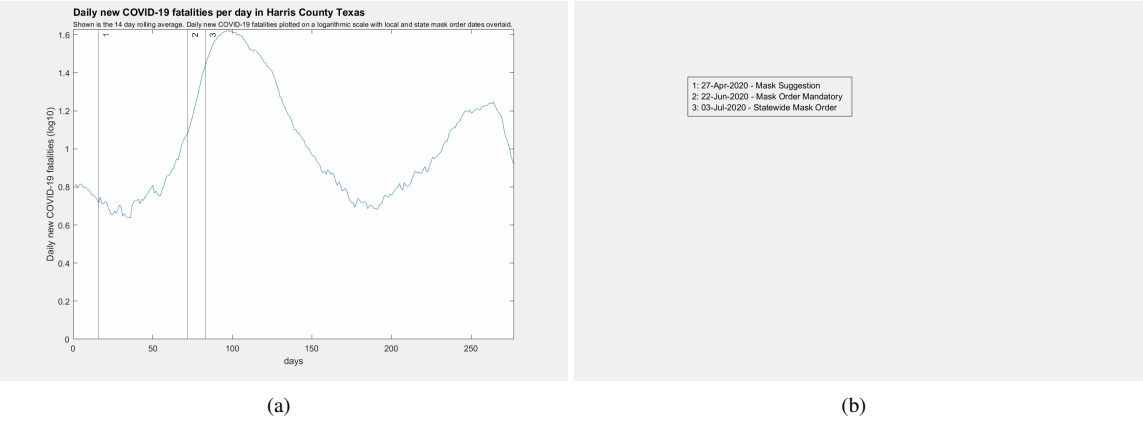
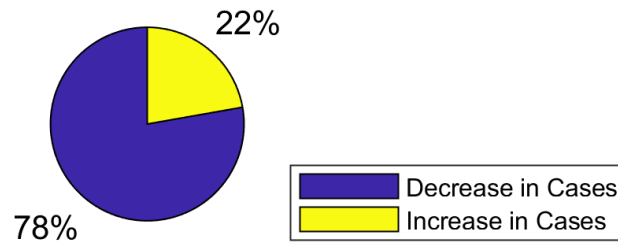


Figure 39: (a) blah (b) blah

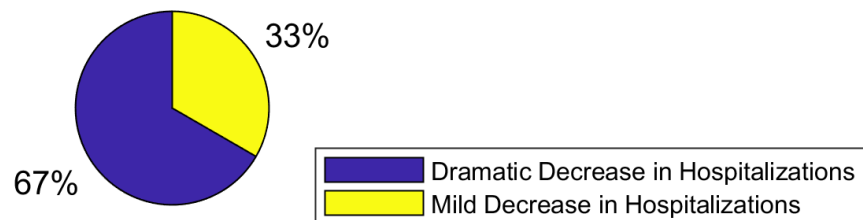
3.4 County-Level Statistics on COVID-19 and Government Mask Orders

3.5 The Impact of a Mask Order on the Spread of COVID-19

COVID-19 Cases Per-Day After Local & State Mask Order Implementation



COVID-19 Hospitalizations Per-Day After Local & State Mask Order Implementation



COVID-19 Fatalities Per-Day After Mask Order Implementation

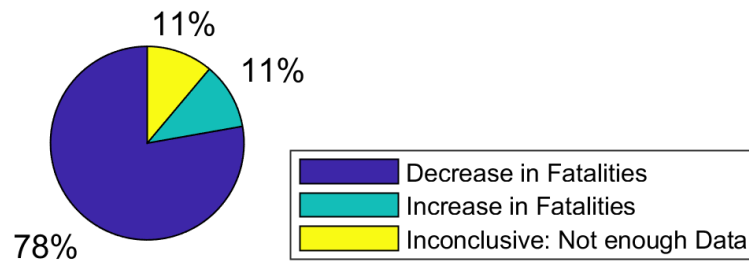


Figure 40: County-level COVID-19 case, hospitalization, and fatality statistics after local and state mask mandates are implemented (note: some counties do not have statewide mask mandates in place).

4 School Closings, and School Re-openings

In figures XX-XX, the 14 day moving average of daily new COVID-19 cases, hospitalizations and fatalities per day in 9 counties is displayed on a logarithmic scale (\log_{10}) with vertical line overlays representing the dates in which local school openings and closings have occurred. The counties assessed are Miami-Dade County, Florida; Broward County, Florida; Orange County, Florida; Los Angeles County, California; San Bernardino County, California; San Francisco County, California; Travis County, Texas; Dallas County, Texas; and Harris County, Texas.

4.1 Schools and Daily New COVID-19 Cases

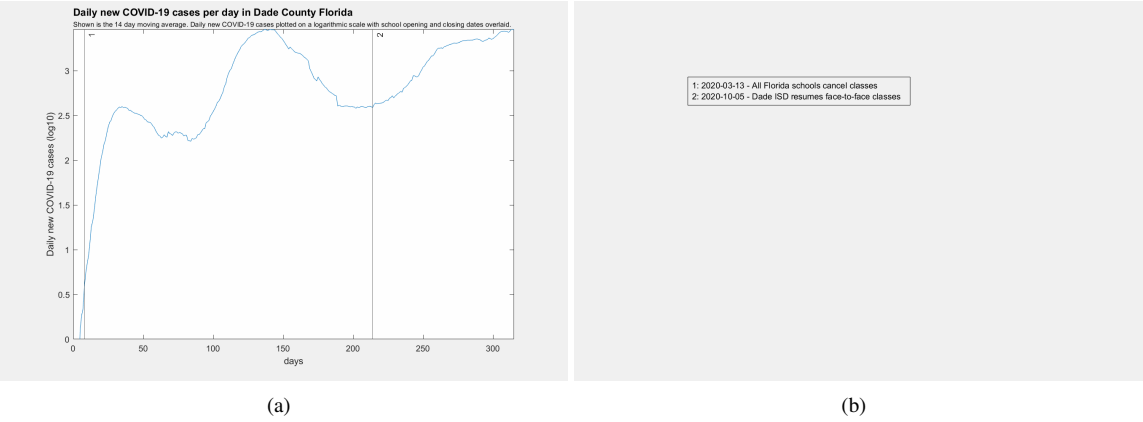


Figure 41: (a) blah (b) blah

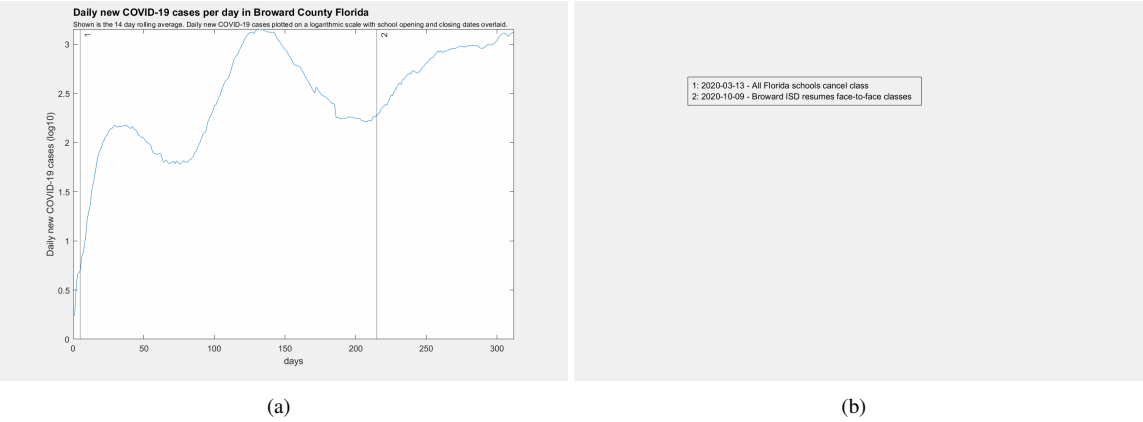


Figure 42: (a) blah (b) blah

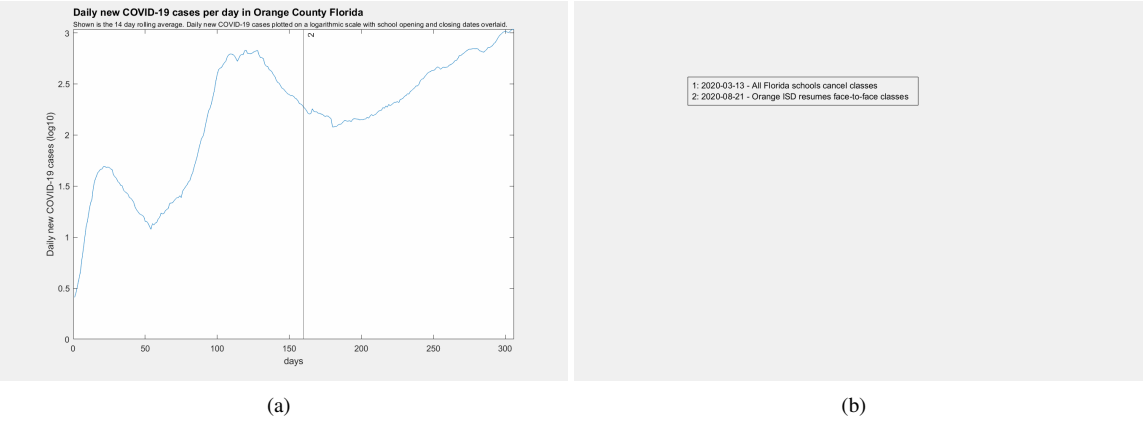


Figure 43: (a) blah (b) blah

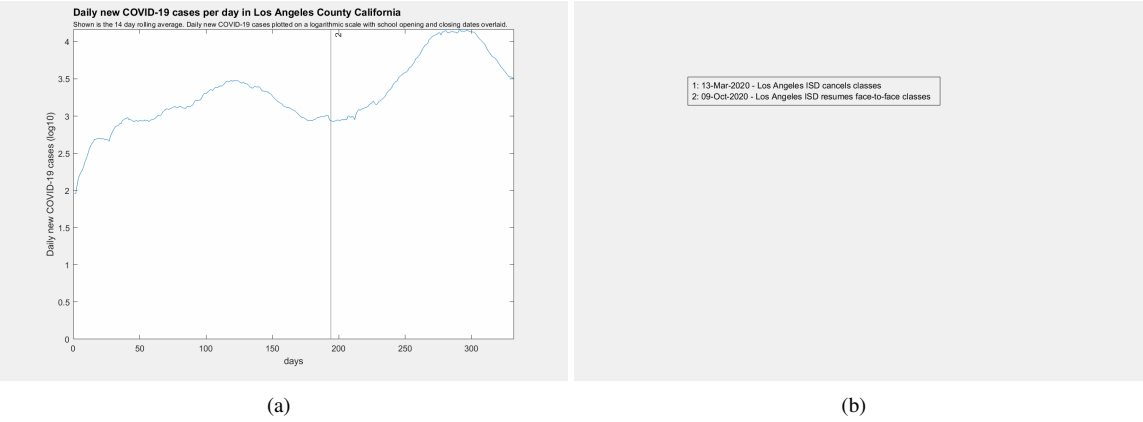


Figure 44: (a) blah (b) blah

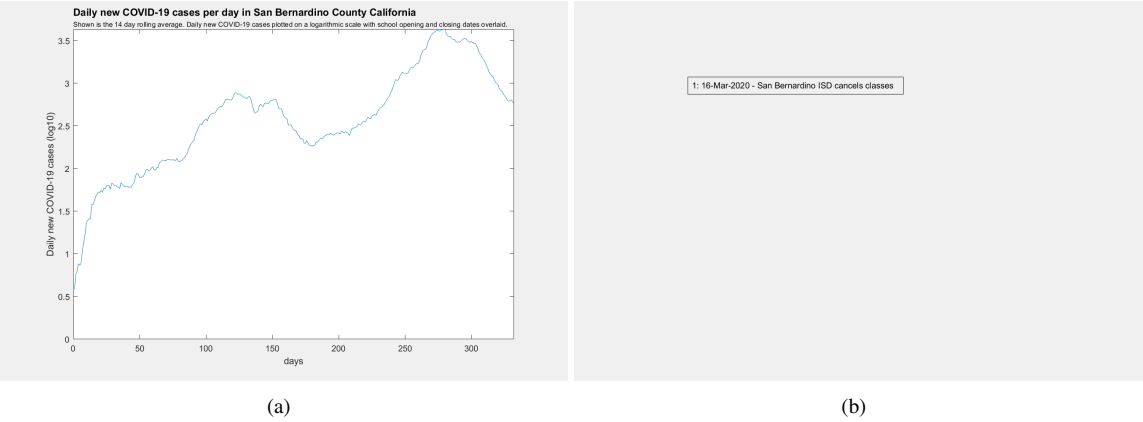


Figure 45: (a) blah (b) blah

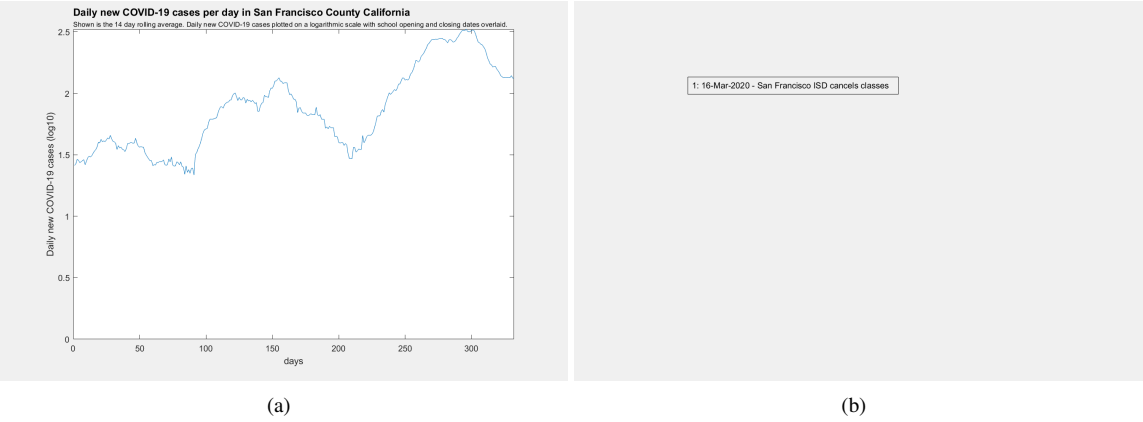
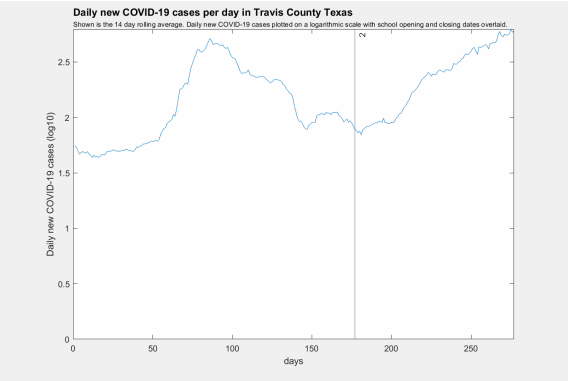


Figure 46: (a) blah (b) blah

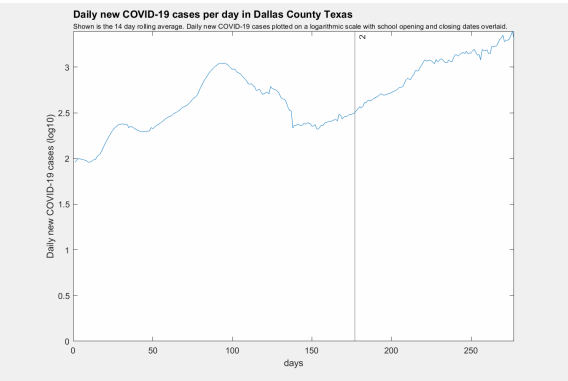


(a)



(b)

Figure 47: (a) blah (b) blah

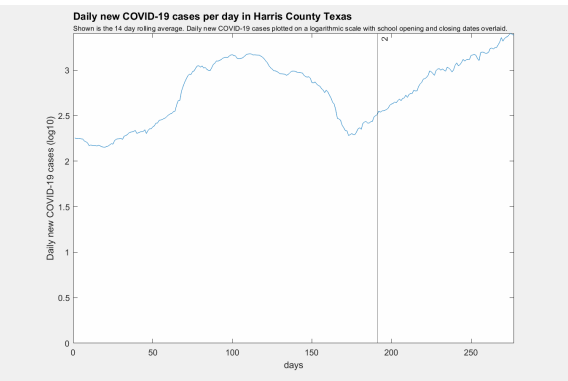


(a)



(b)

Figure 48: (a) blah (b) blah



(a)



(b)

Figure 49: (a) blah (b) blah

4.2 Schools and Daily New COVID-19 Hospitalizations

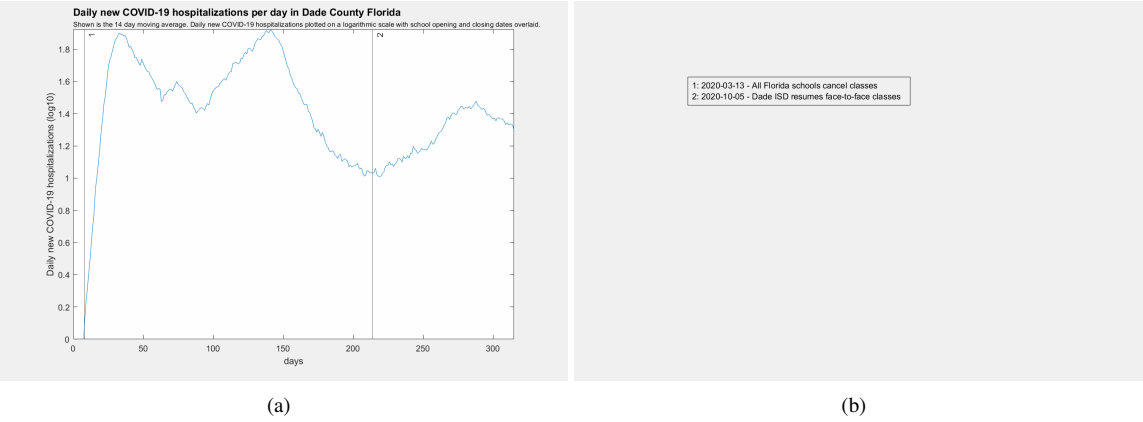


Figure 50: (a) blah (b) blah

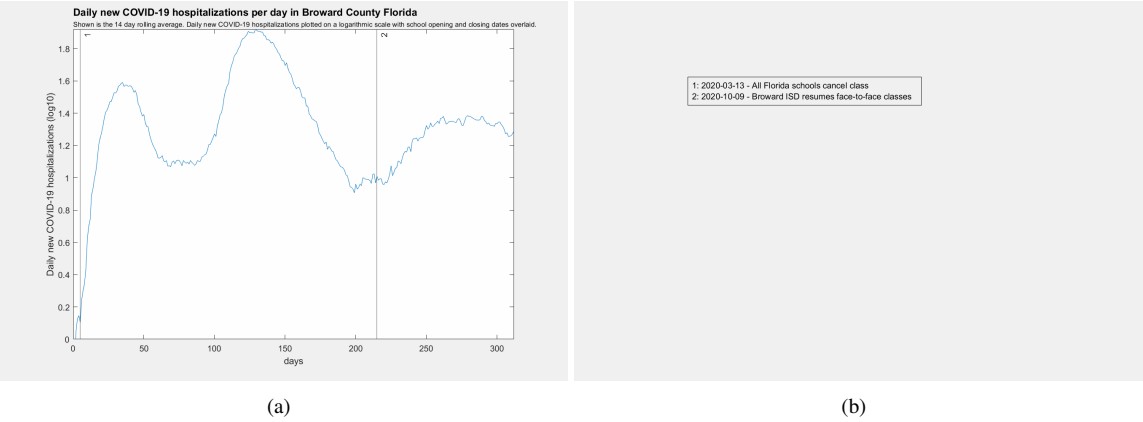


Figure 51: (a) blah (b) blah

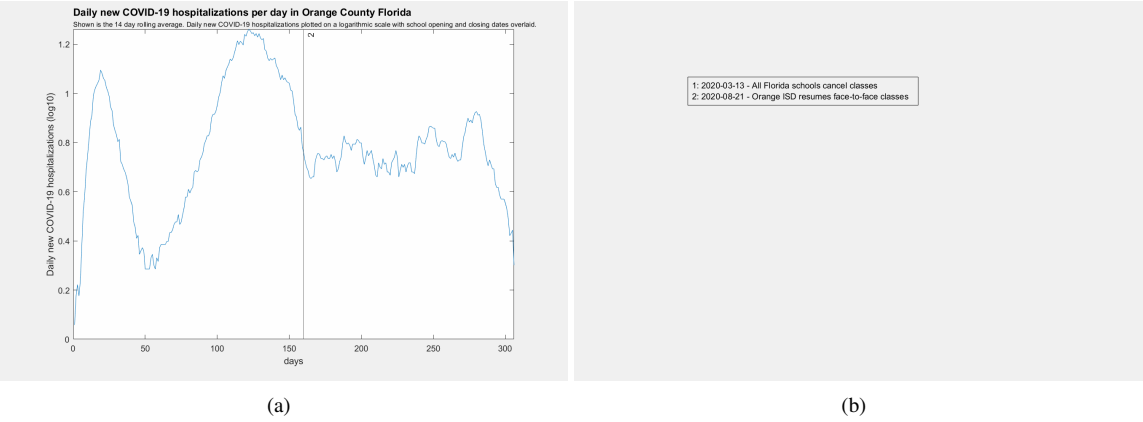


Figure 52: (a) blah (b) blah

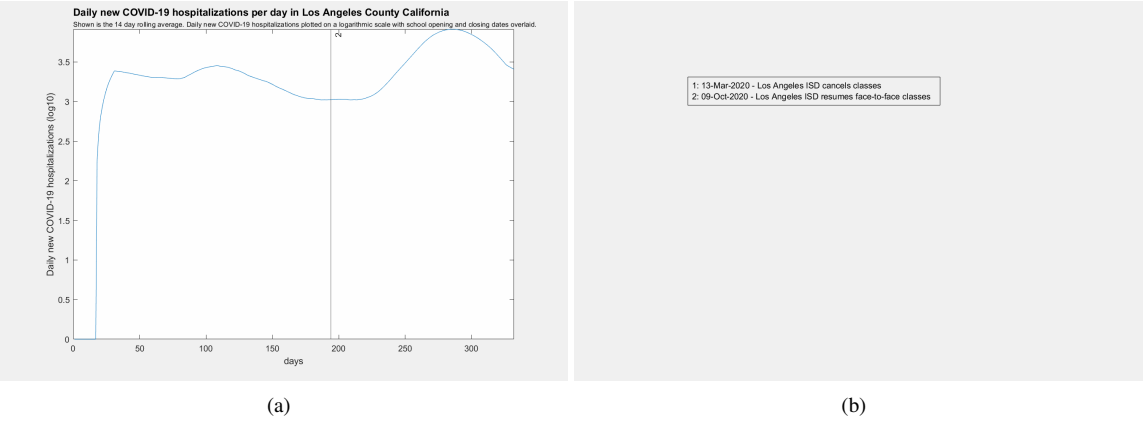


Figure 53: (a) blah (b) blah

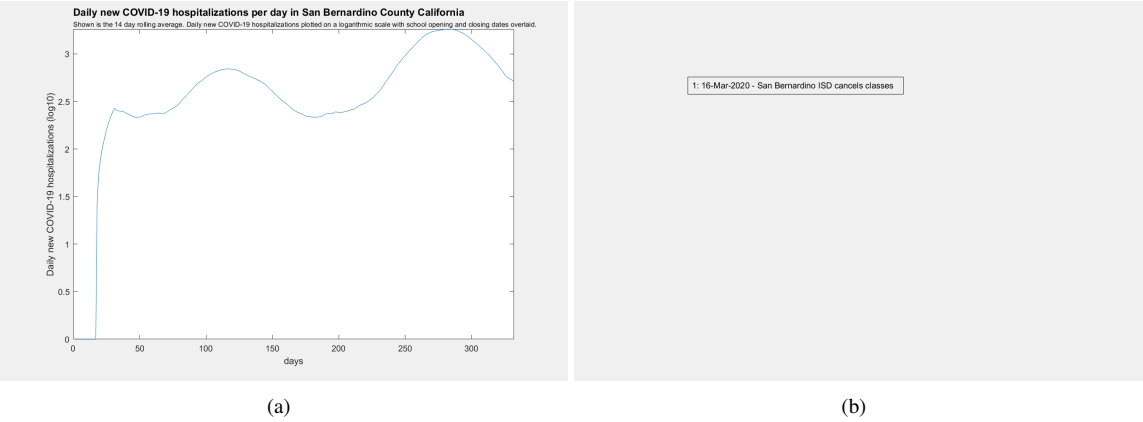


Figure 54: (a) blah (b) blah

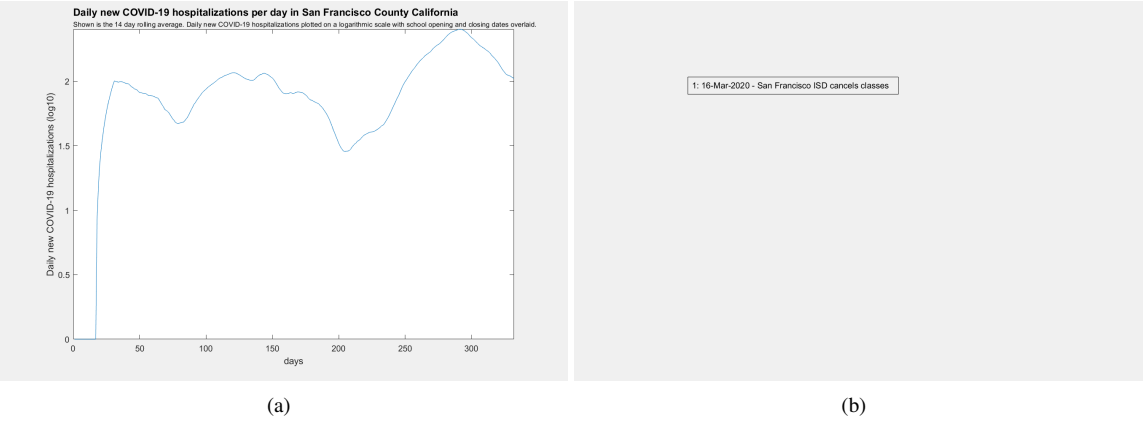


Figure 55: (a) blah (b) blah

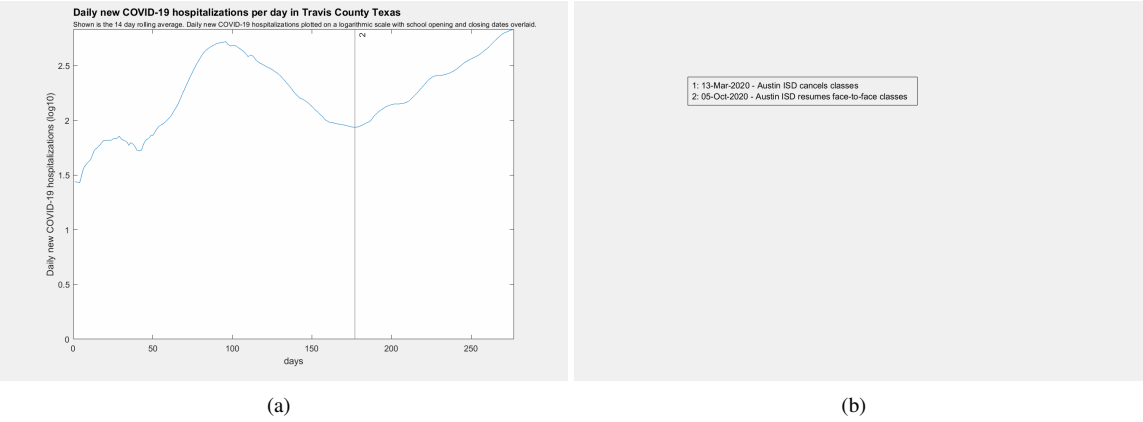


Figure 56: (a) blah (b) blah

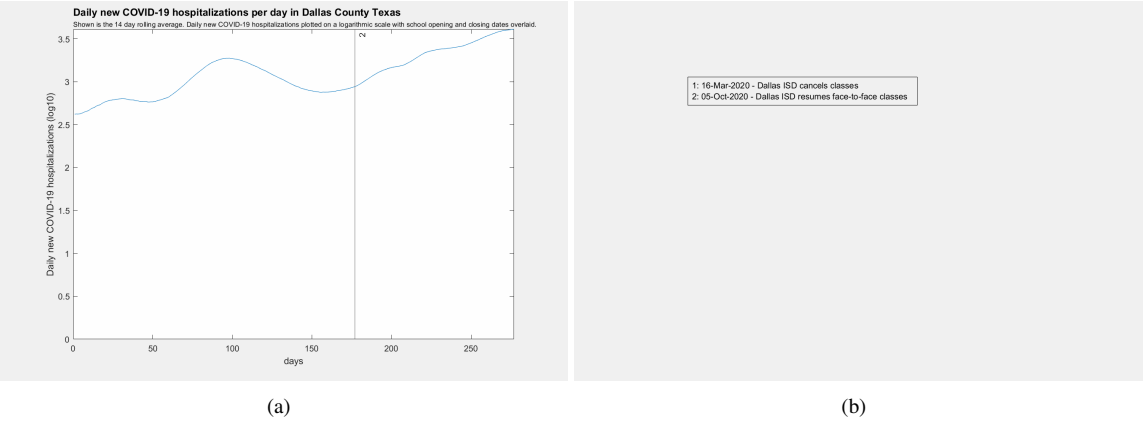


Figure 57: (a) blah (b) blah

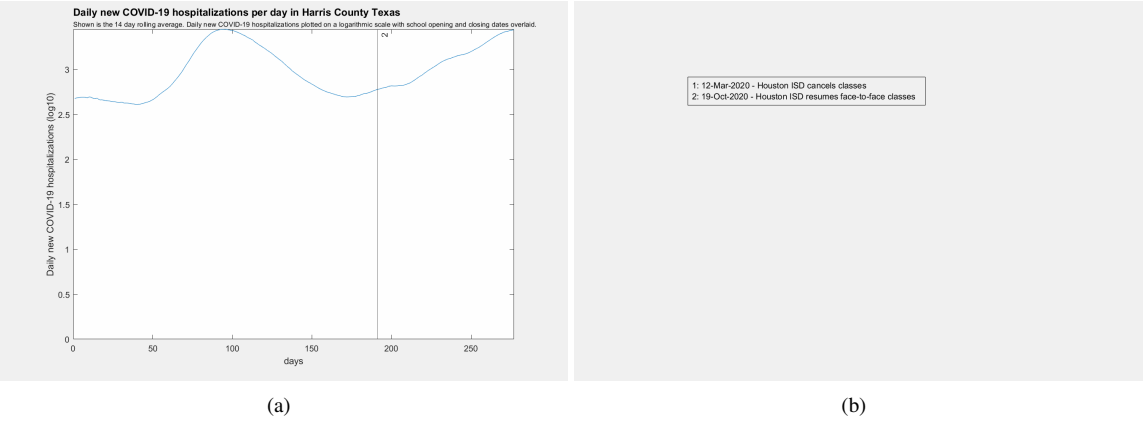


Figure 58: (a) blah (b) blah

4.3 Schools and Daily New COVID-19 Fatalities

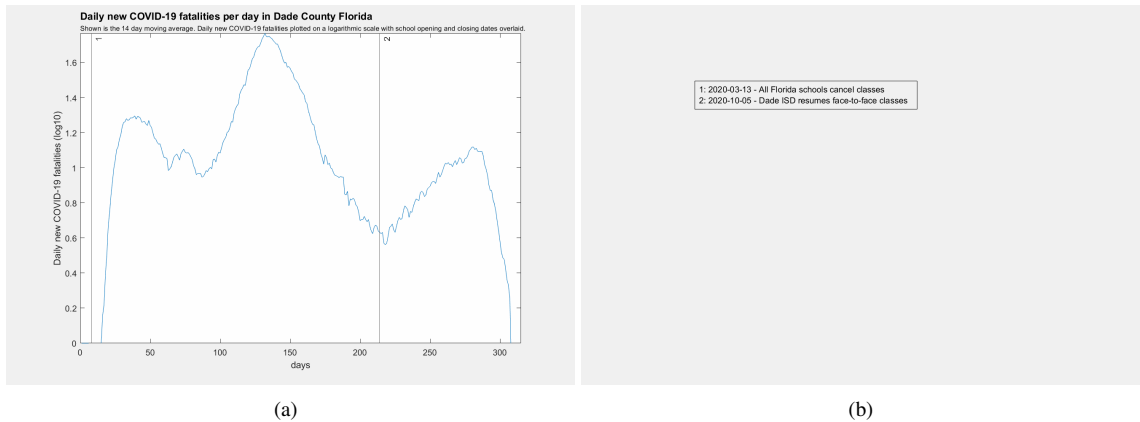


Figure 59: (a) blah (b) blah

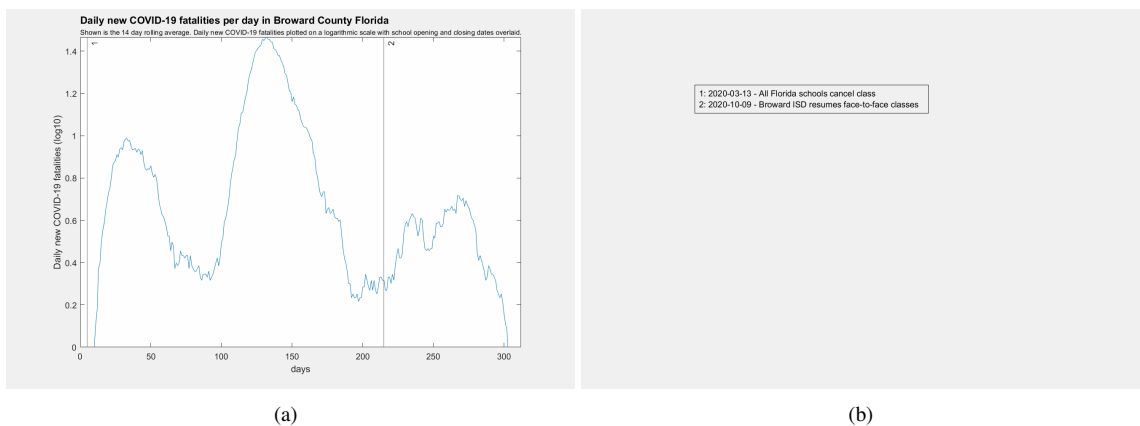


Figure 60: (a) blah (b) blah

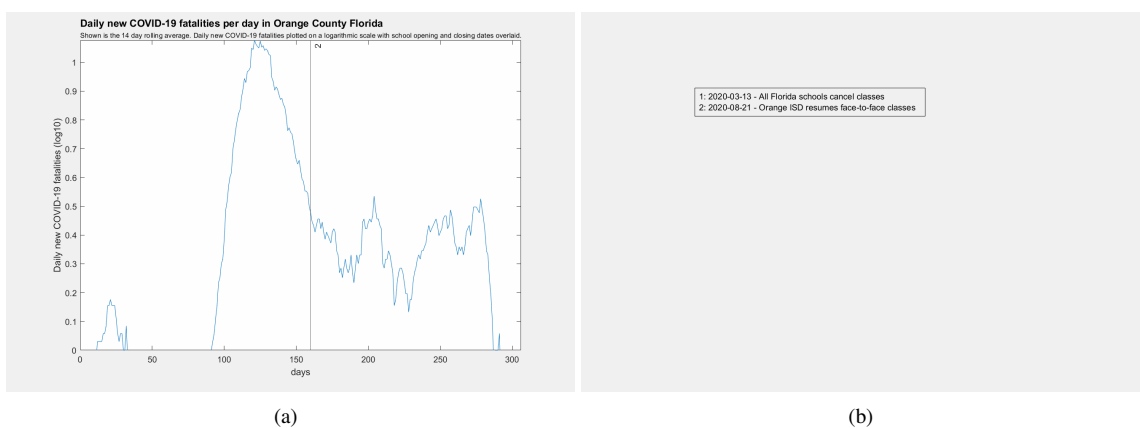
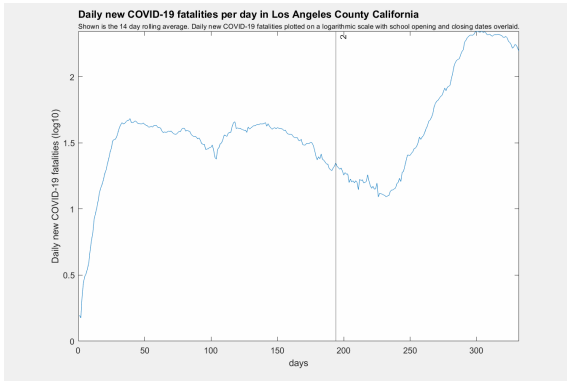


Figure 61: (a) blah (b) blah

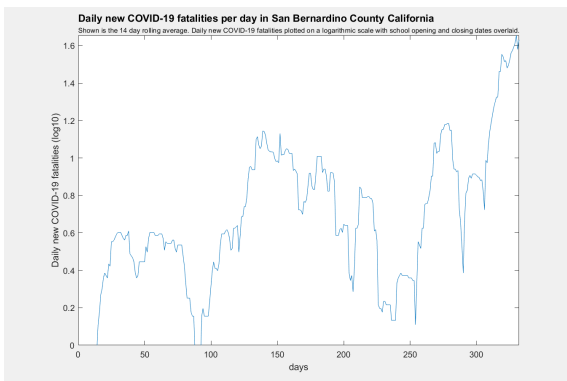


(a)

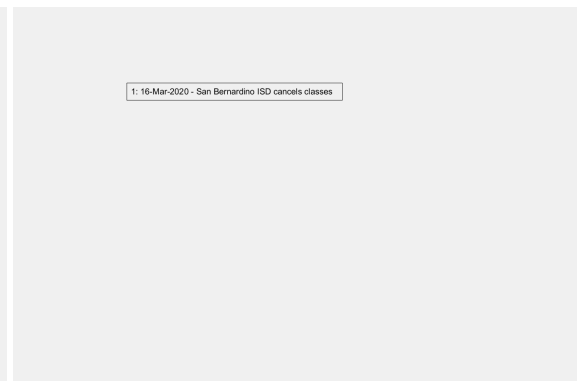


(b)

Figure 62: (a) blah (b) blah

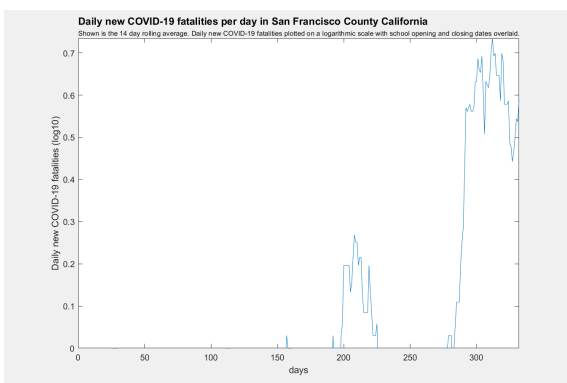


(a)



(b)

Figure 63: (a) blah (b) blah



(a)



(b)

Figure 64: (a) blah (b) blah

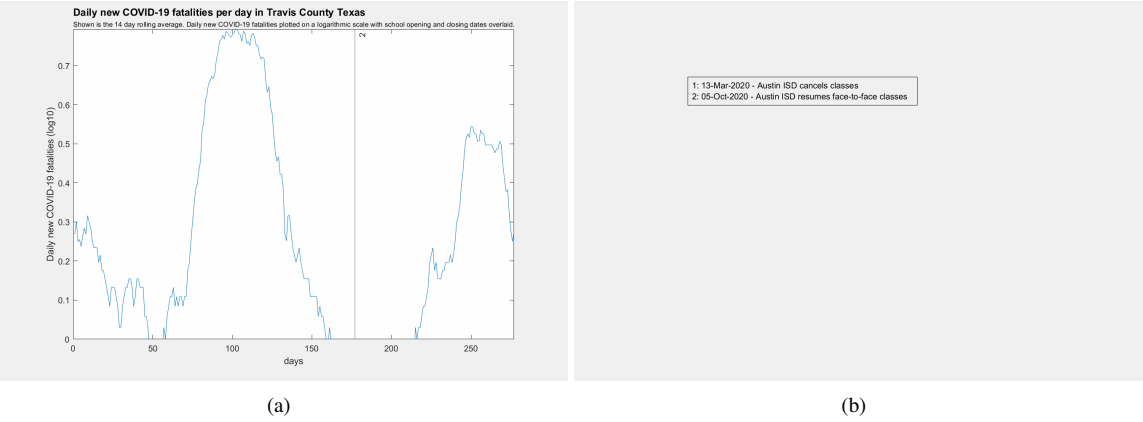


Figure 65: (a) blah (b) blah

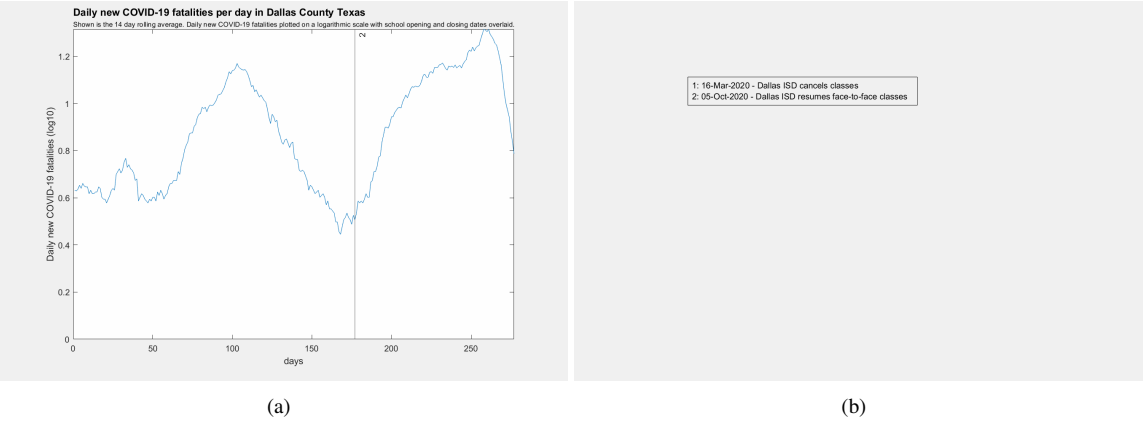


Figure 66: (a) blah (b) blah

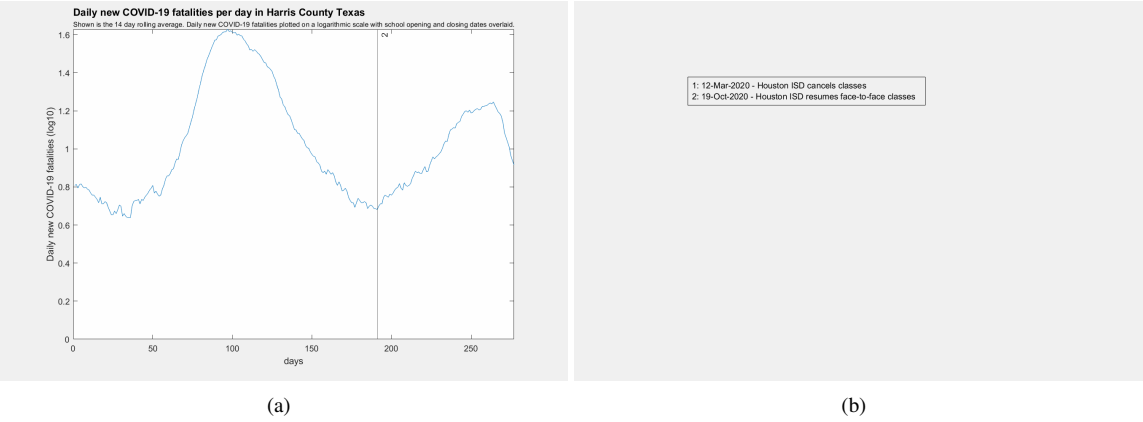


Figure 67: (a) blah (b) blah