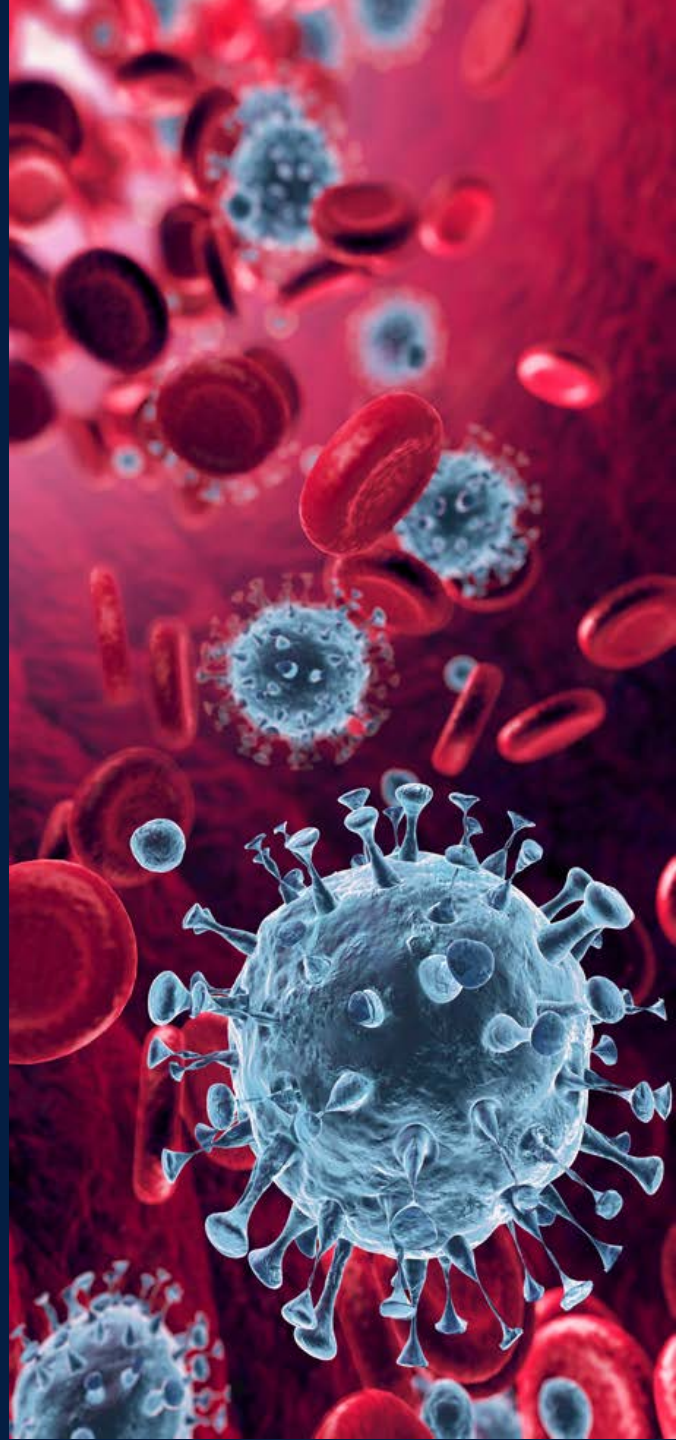
COVID-19 By the Numbers



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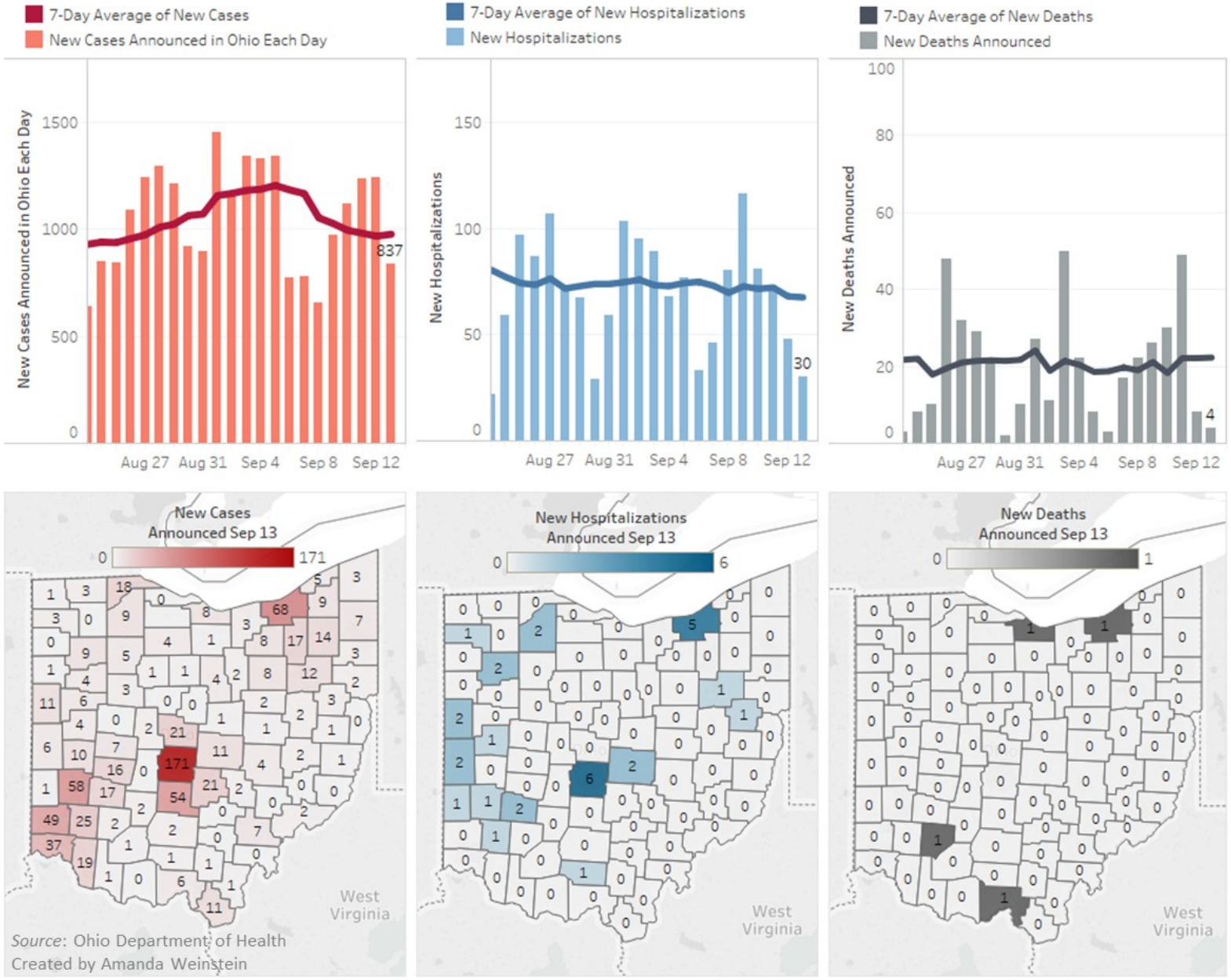
Dr. Amanda L. Weinstein
Associate Professor, Department of Economics
College of Business Administration
September 14, 2020

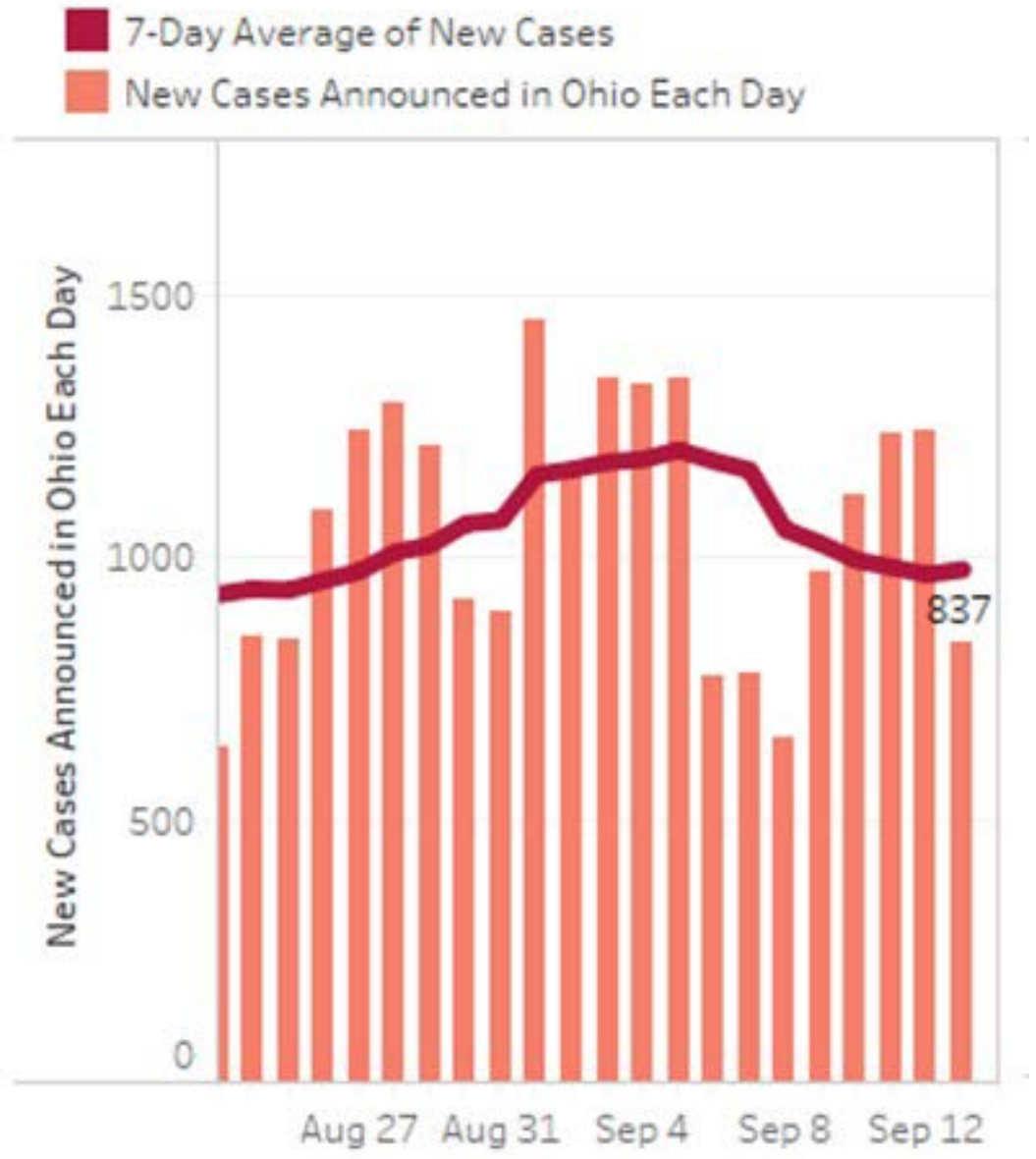
DAILY DATA VISUALIZATION



Source: Ohio Department of Health
Created by Amanda Weinstein

CORONAVIRUS CASES

- New cases announced each day (837)
- 7-day average (978)
- 0.9% ↑ in the 7-day average



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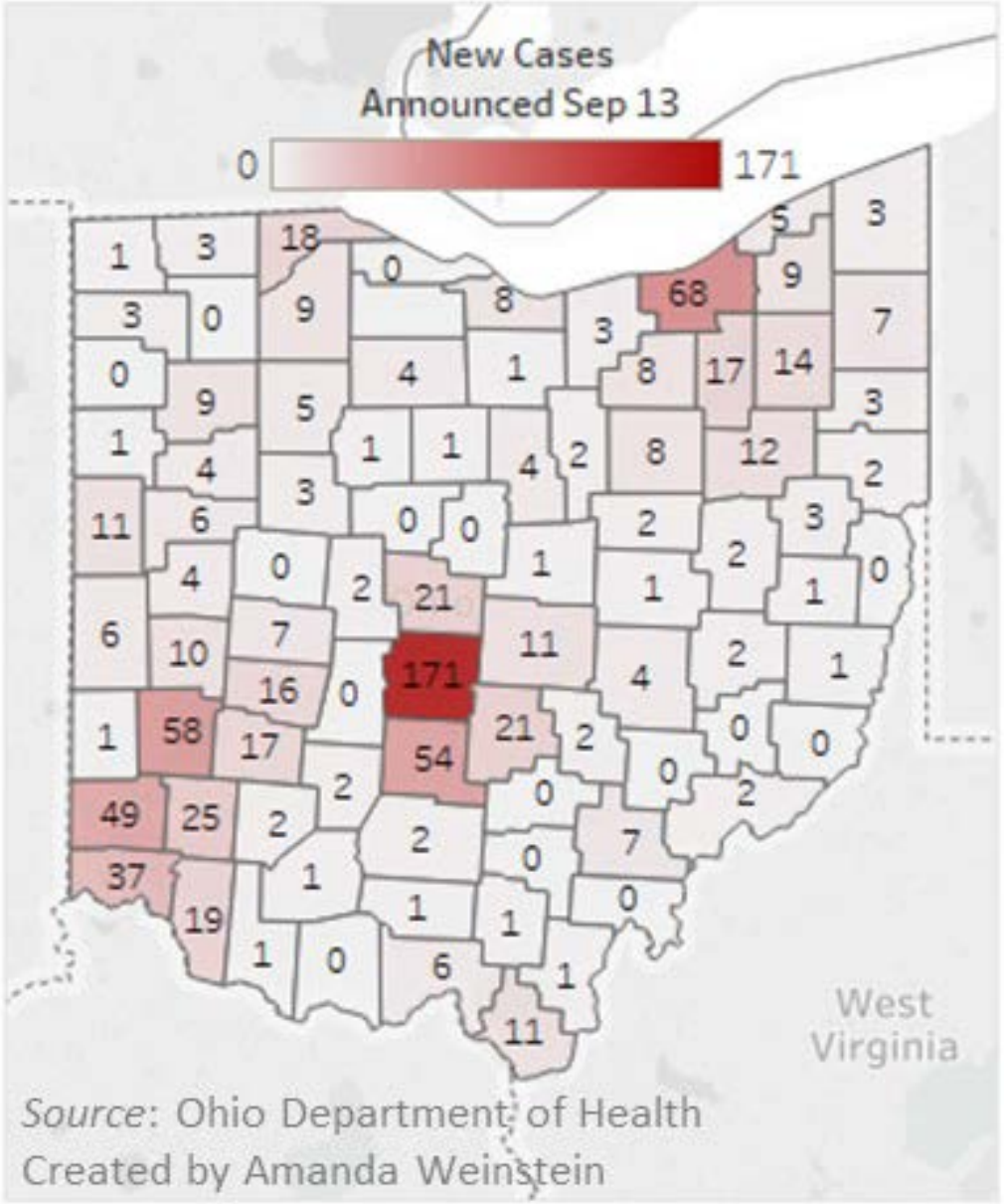
SESQUICENTENNIAL 1870 2020

CORONAVIRUS CASES

- Pinpoint where outbreaks are
- Counties with large college campuses
  1. OSU (2,242): Franklin County
  2. UD (1,205): Montgomery County
  3. Miami (968): Butler County



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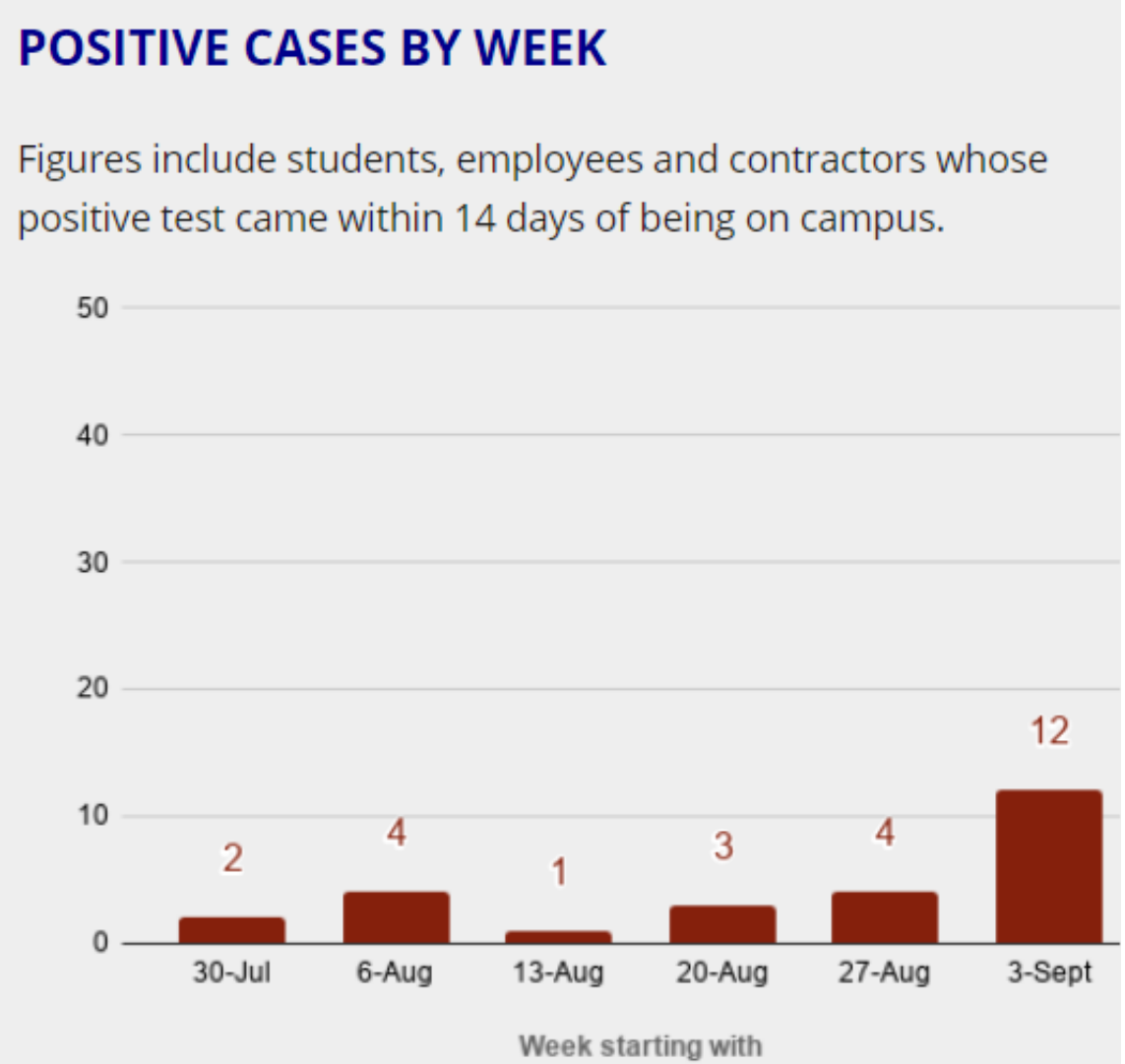
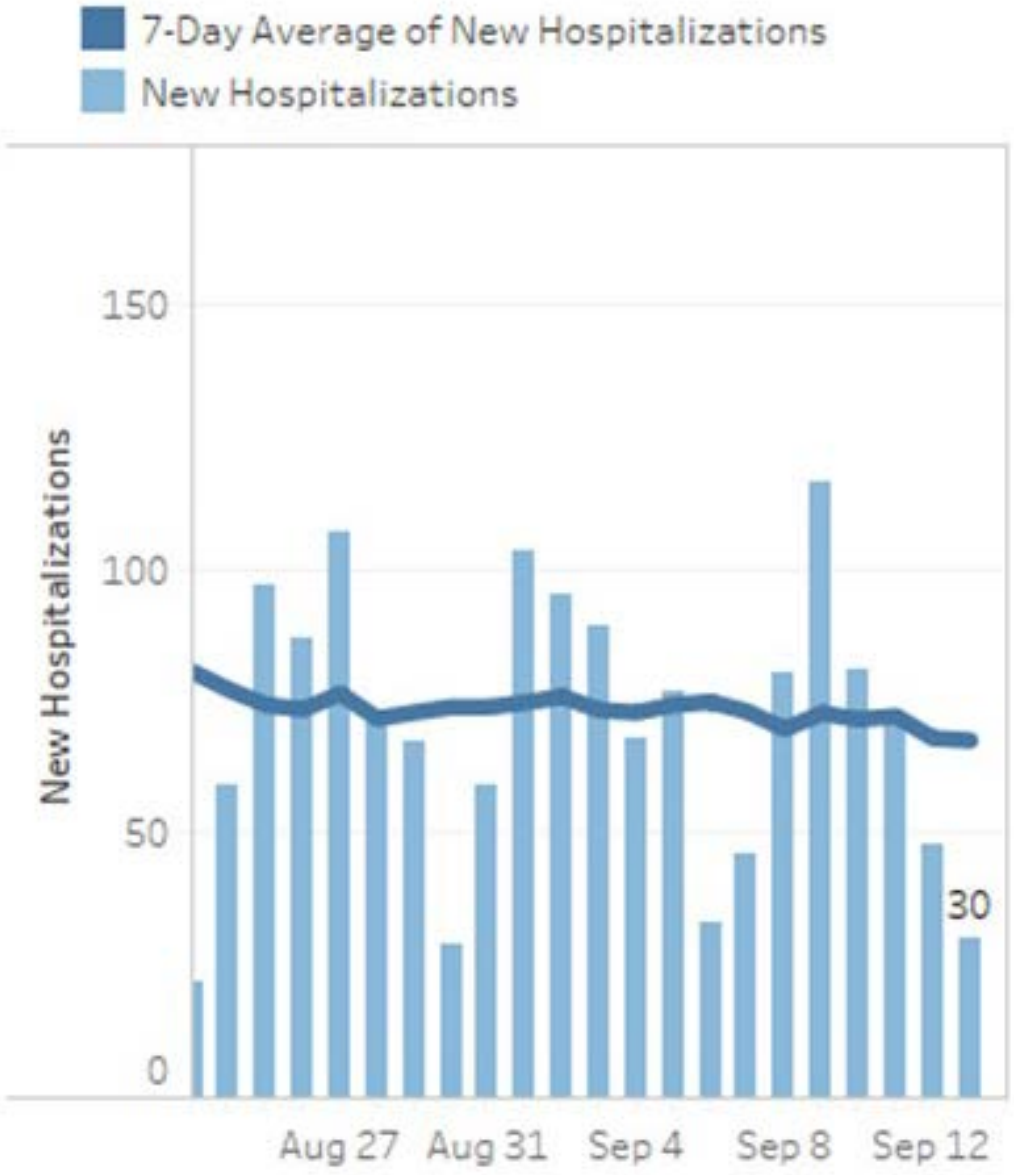
UNIVERSITY OF AKRON CASES

- UA (26): Summit County



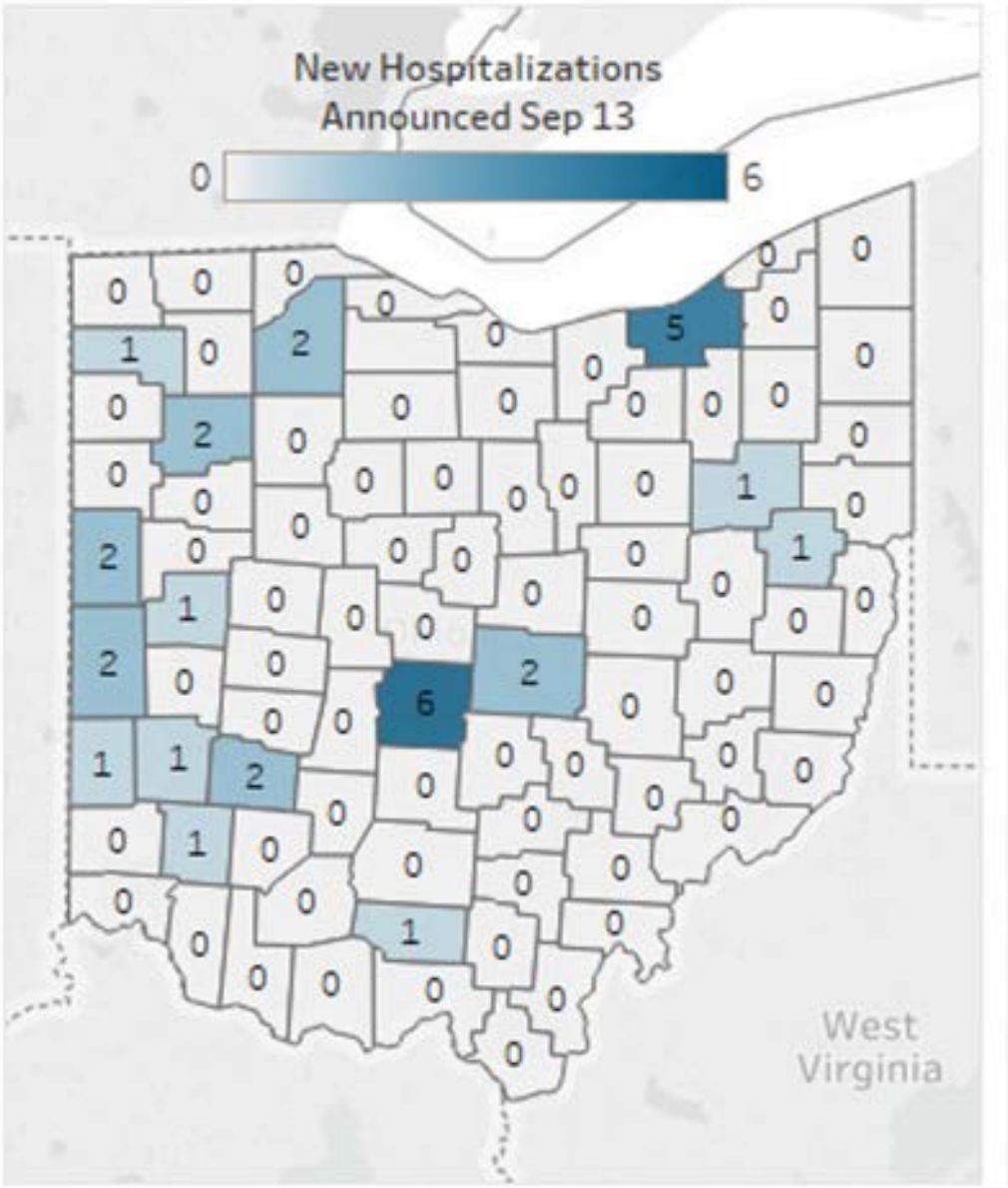
CORONAVIRUS HOSPITALIZATIONS

- New hospitalizations (30)
- 7-day average (68)
- 0.6% ↓ in the 7-day average



CORONAVIRUS HOSPITALIZATIONS

- Location of new hospitalizations
- More serious outbreaks
- Rural areas have less access to hospitals



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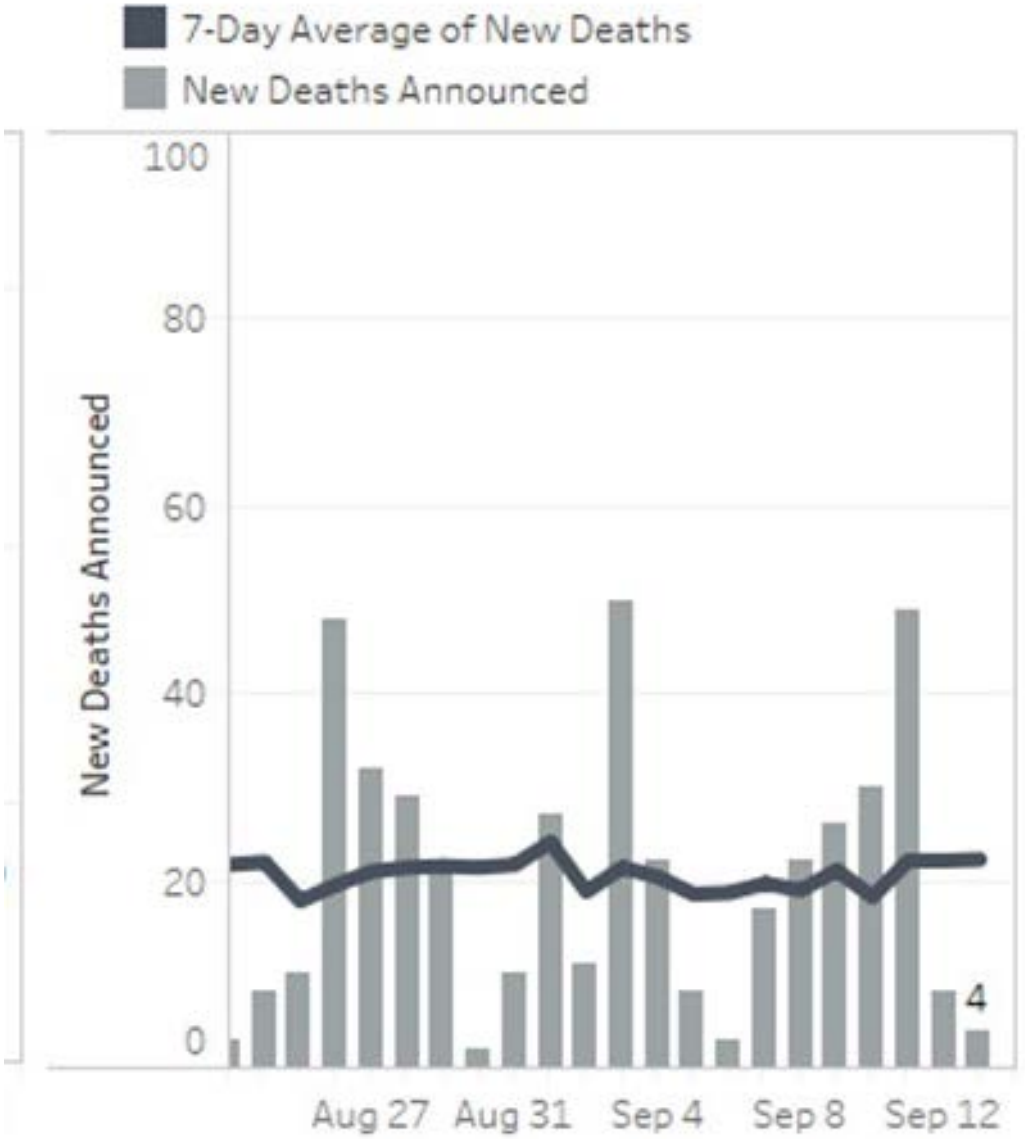
CORONAVIRUS DEATHS

- New deaths announced (4)
- 7-day average (22)
- 0.6% ↑ in the 7-day average



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CORONAVIRUS DEATHS

- New deaths announced by county

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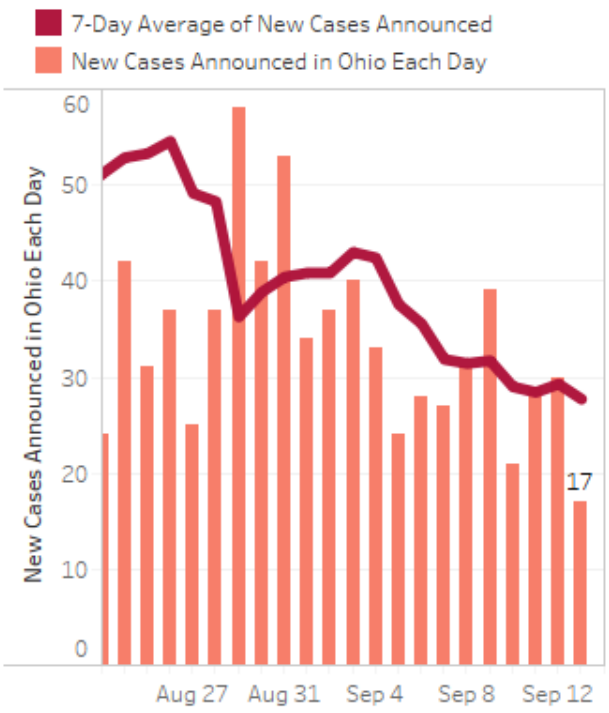
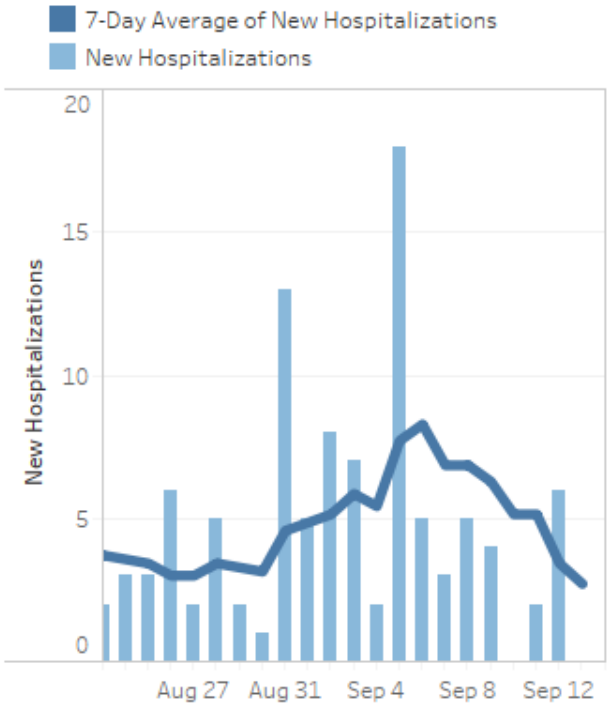
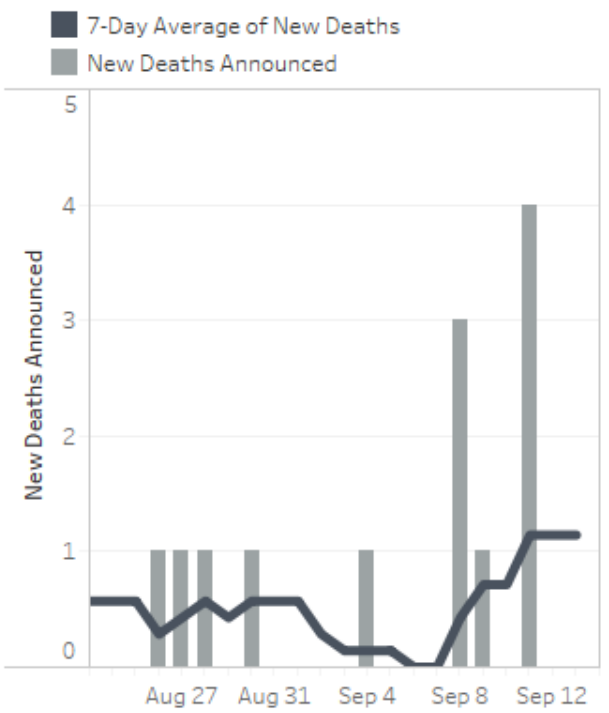
SUMMIT COUNTY







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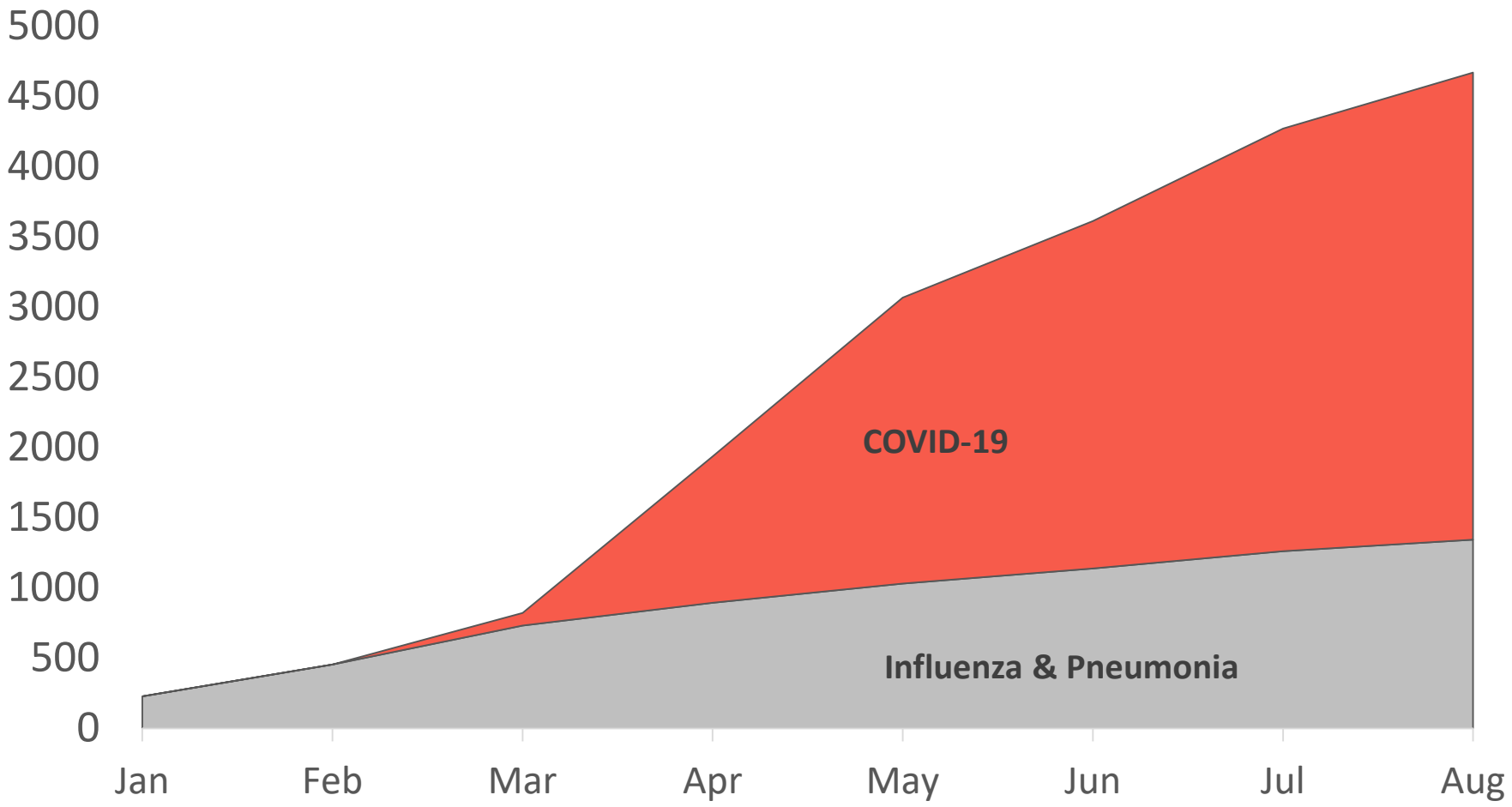
TOTAL DEATHS

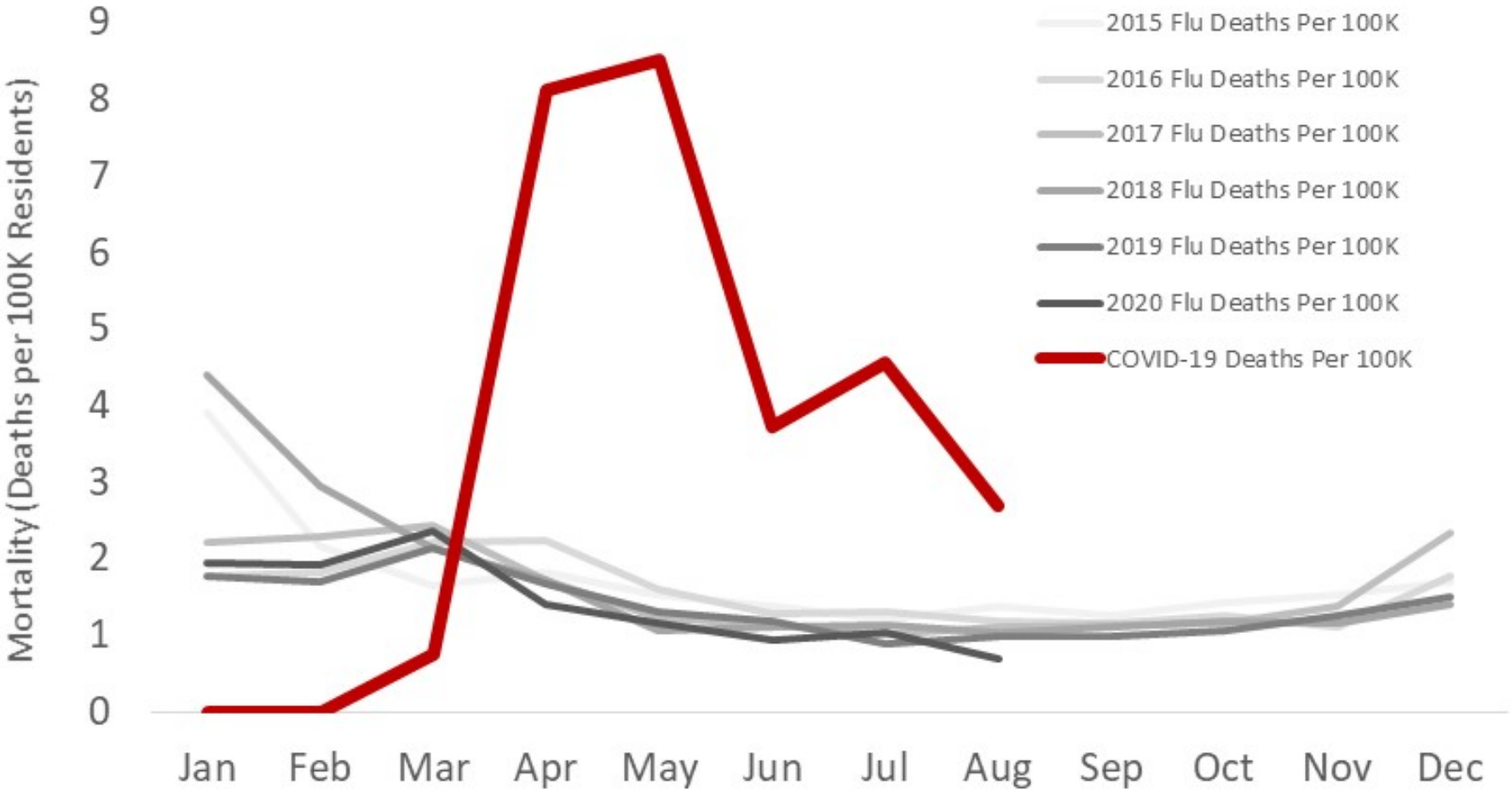
Total Deaths in Ohio from Influenza, Pneumonia, and COVID-19



Source: Ohio Public Health Information Warehouse Ohio Department of Health
Created by Amanda Weinstein

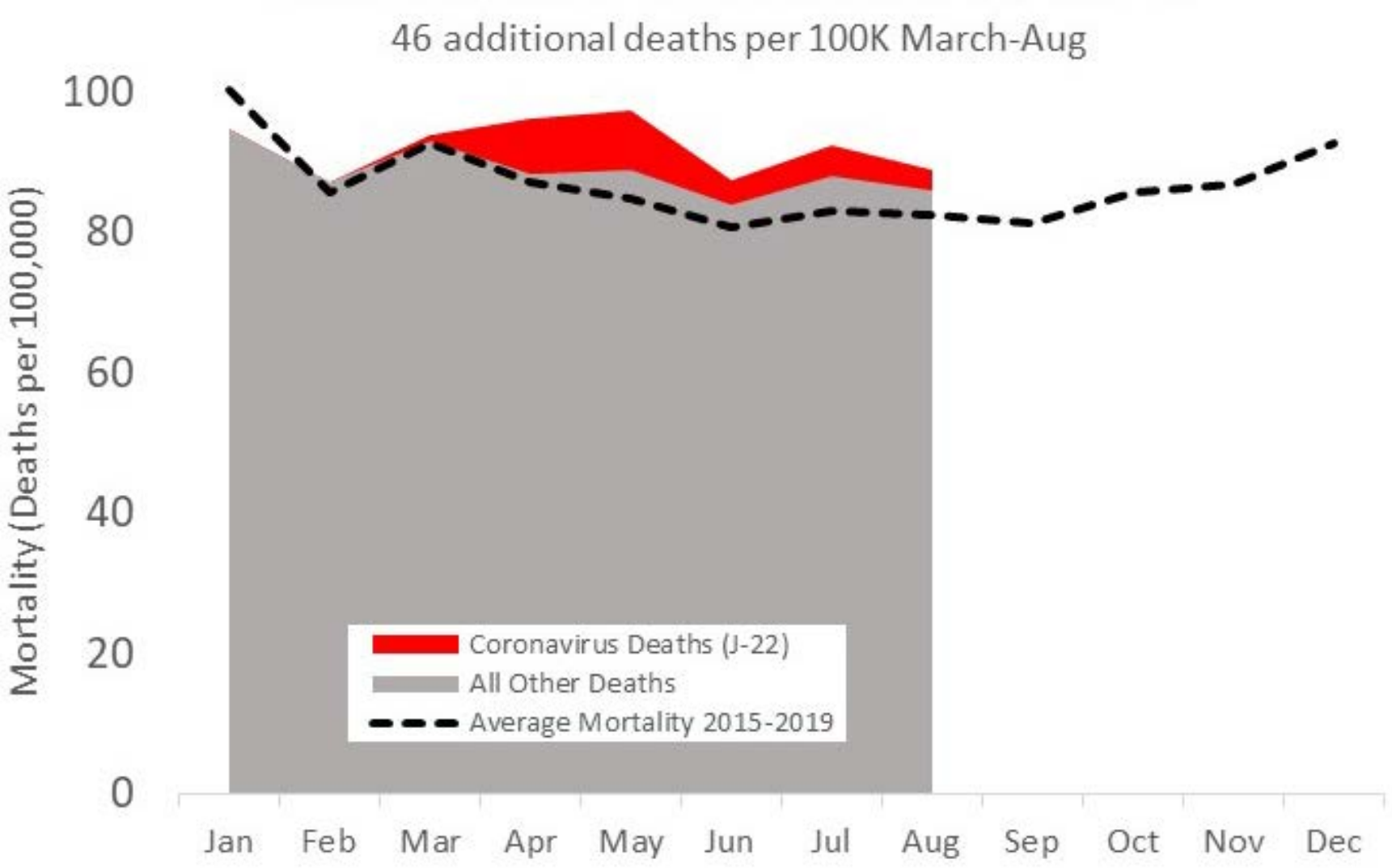
MORTALITY

Mortality from COVID-19 in Ohio nearly 6 Times Higher than Mortality from Influenza & Pneumonia in April



Source: Ohio Public Health Information Warehouse Ohio Department of Health
Created by Amanda Weinstein

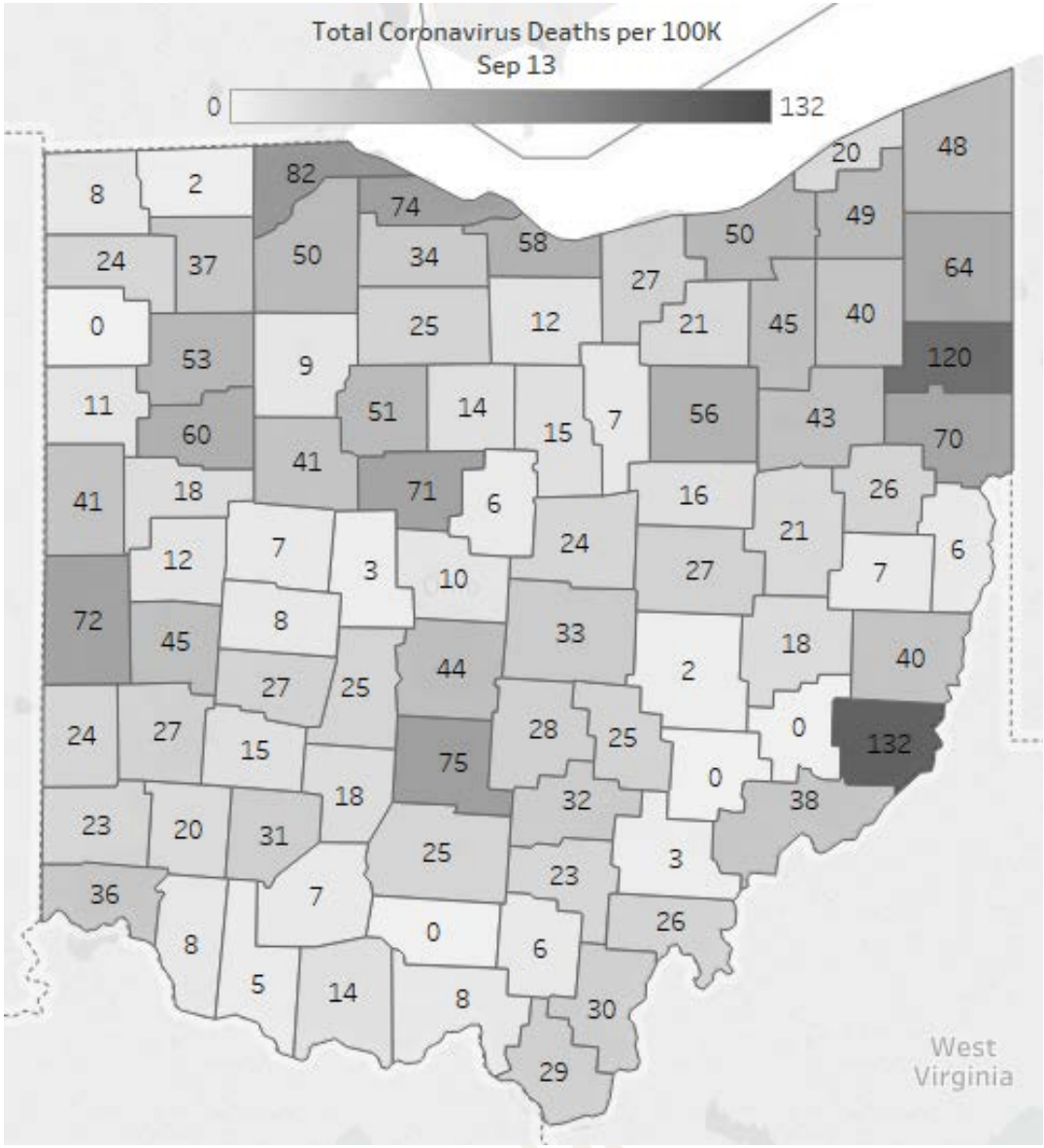
EXCESS DEATHS



Source: Ohio Public Health Information Warehouse Ohio Department of Health
Created by Amanda Weinstein

CORONAVIRUS MORTALITY

- Total deaths per 100,000 people
- Mahoning county (Youngstown) has one of the highest mortality rates in Ohio



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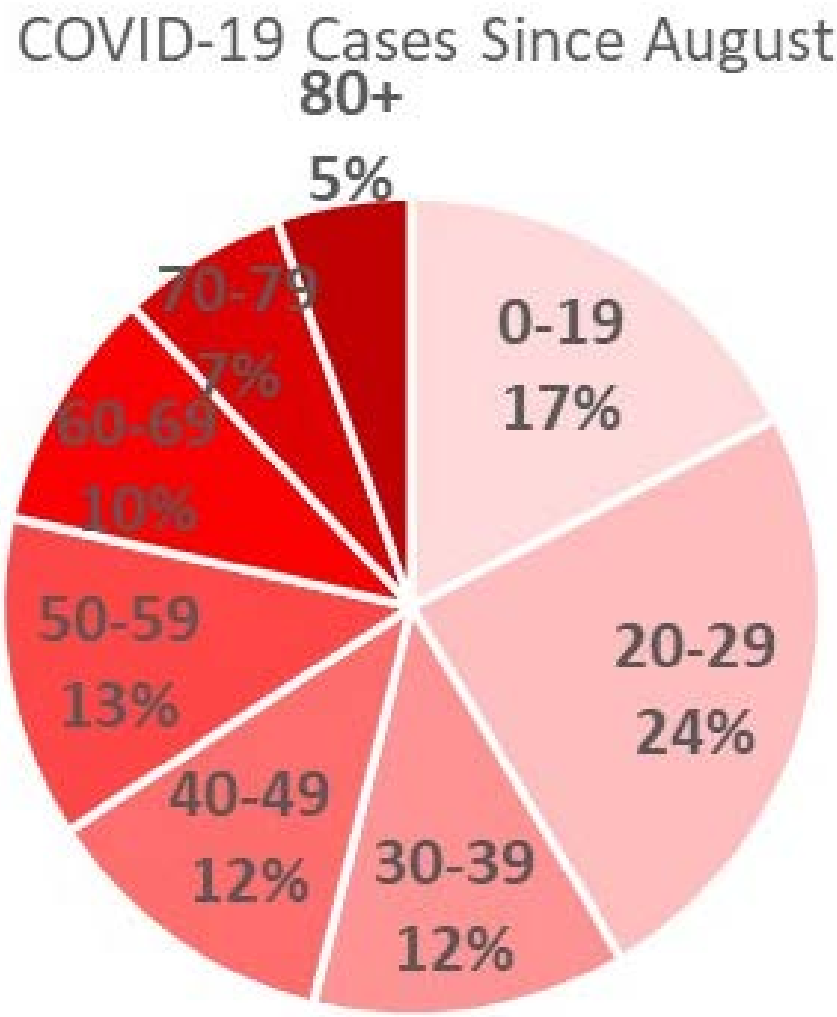
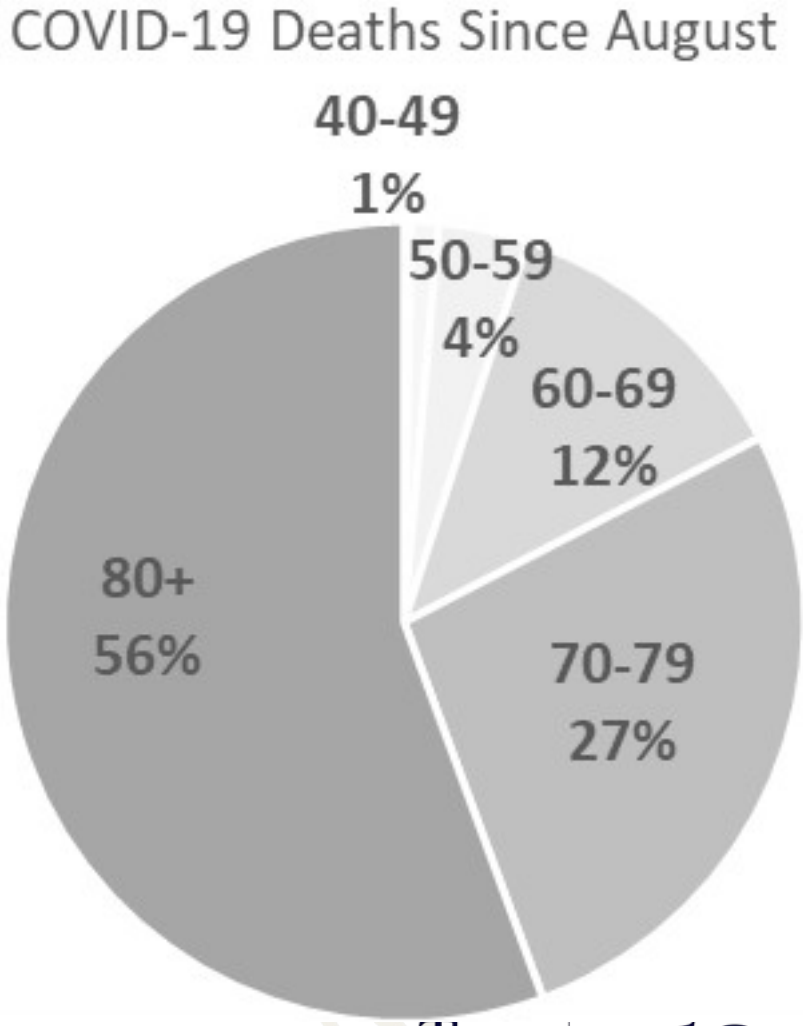
BY AGE





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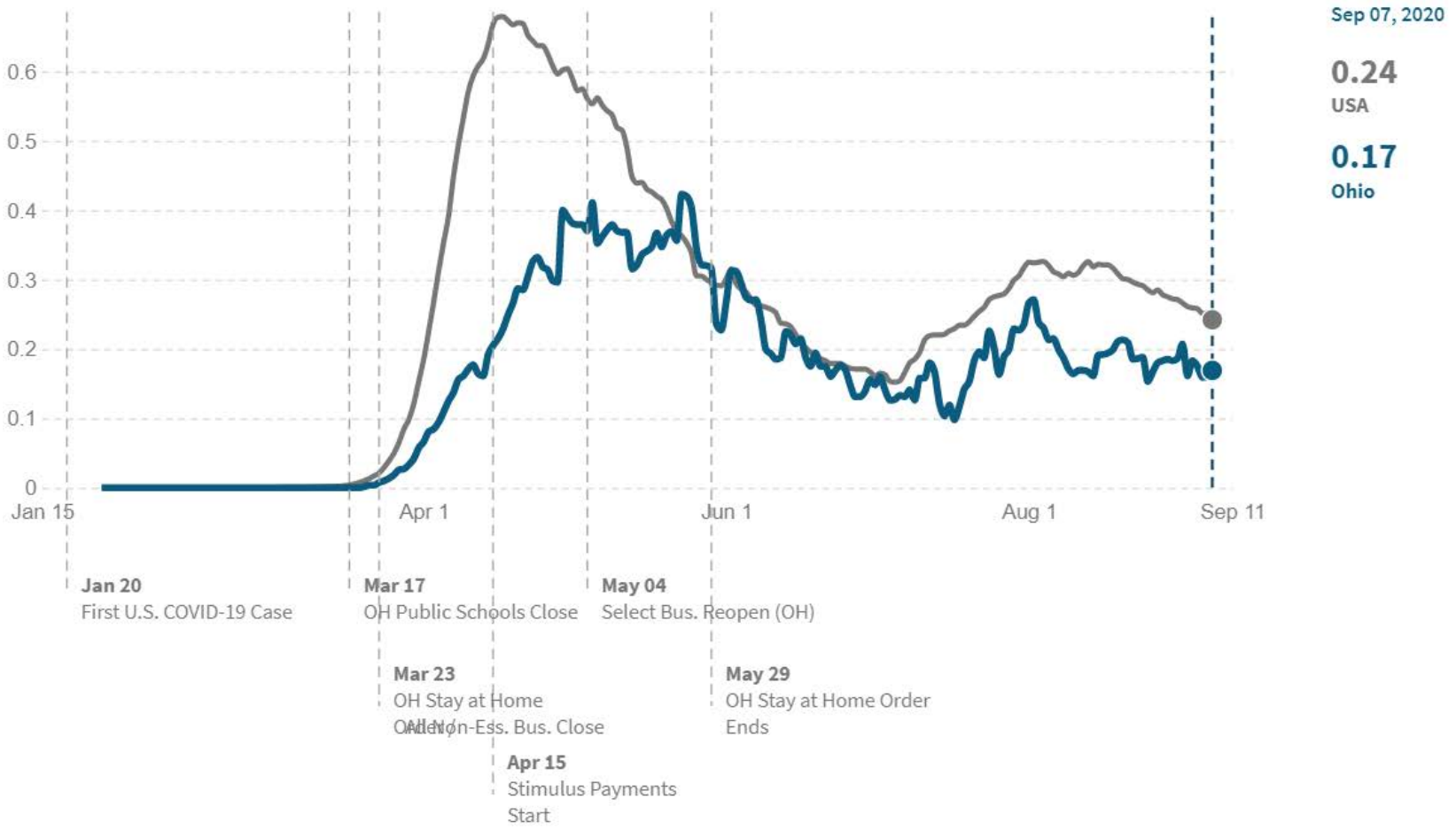
MORTALITY: OHIO AND THE NATION

OPPORTUNITY INSIGHTS ECONOMIC TRACKER

HARVARD UNIVERSITY BROWN BILL & MELINDA GATES foundation

Daily Reported COVID-19 Deaths per 100,000 People*

In **Ohio**, on September 07 2020, there were **0.17** newly reported COVID-19 deaths per 100,000 people.



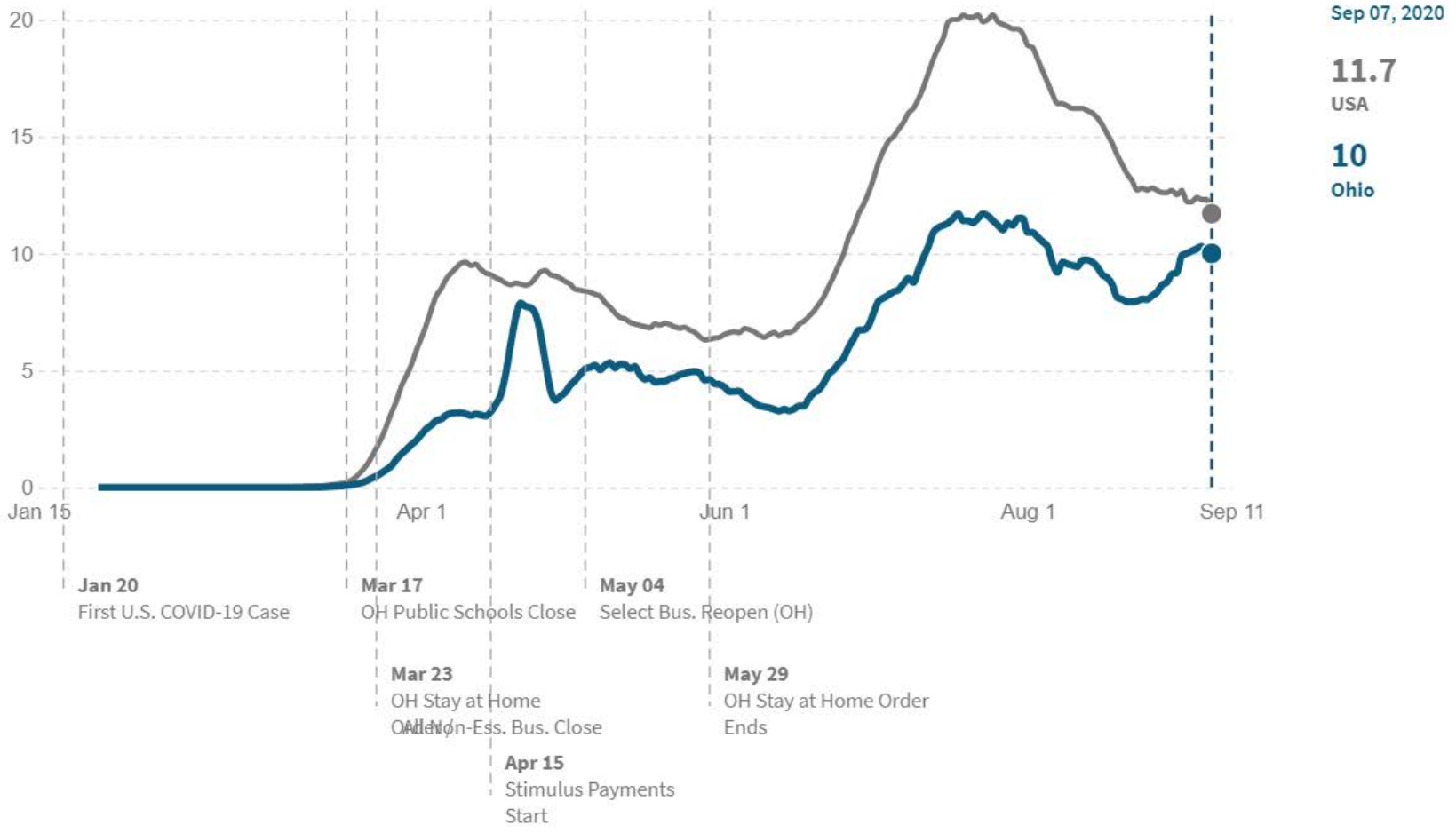
CASES: OHIO AND THE NATION

OPPORTUNITY INSIGHTS ECONOMIC TRACKER

HARVARD UNIVERSITY BROWN BILL & MELINDA GATES foundation

Daily Reported COVID-19 Cases per 100,000 People*

In **Ohio**, on September 07 2020, there were **10** newly reported COVID-19 cases per 100,000 people.

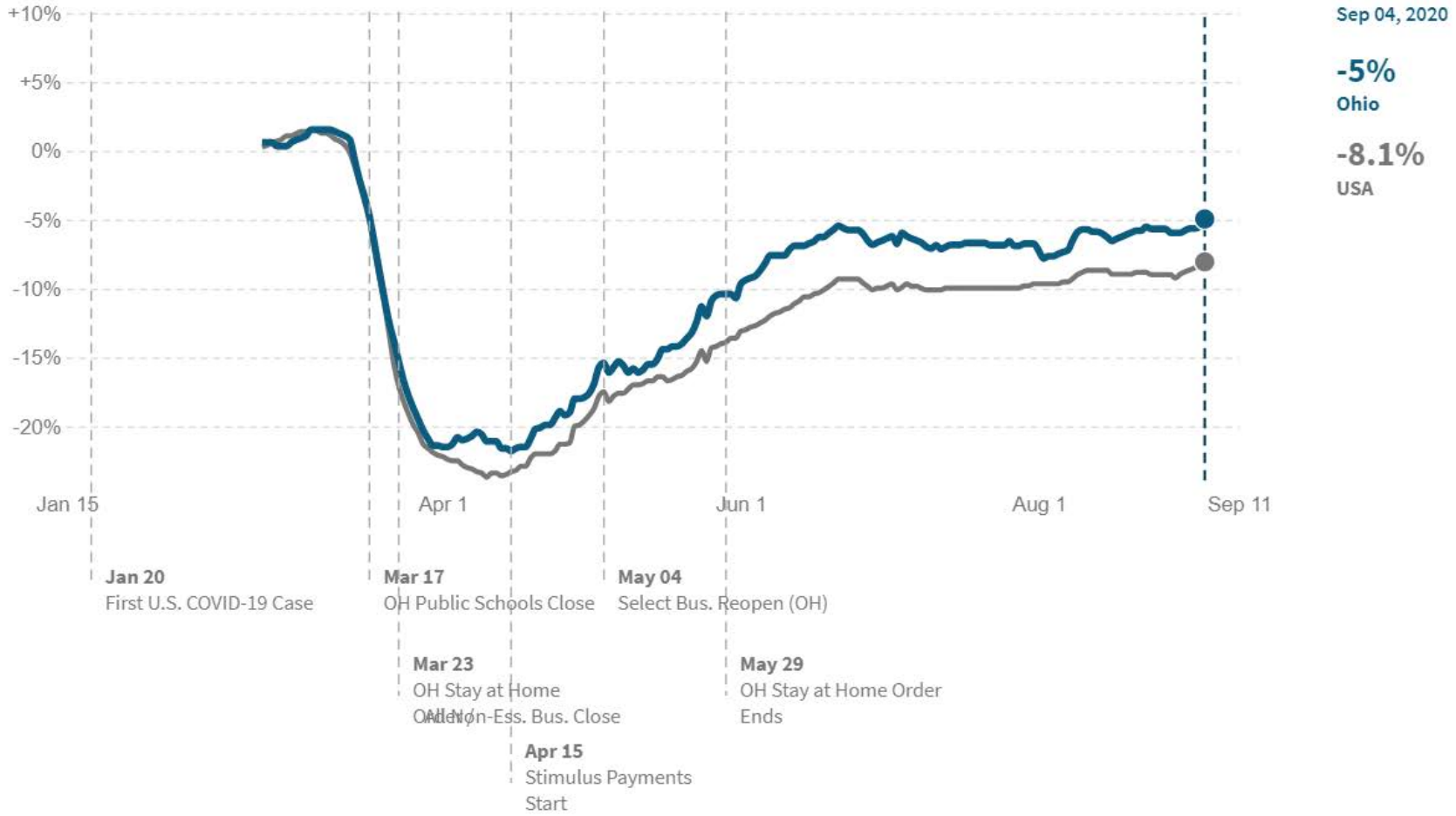


LESS TIME OUTSIDE HOME

OPPORTUNITY INSIGHTS ECONOMIC TRACKER — HARVARD UNIVERSITY — BROWN — BILL & MELINDA GATES foundation

Percent Change in Time Spent Outside Home*

In **Ohio**, as of September 04 2020, total time spent away from home decreased by **5%** compared to January 2020.



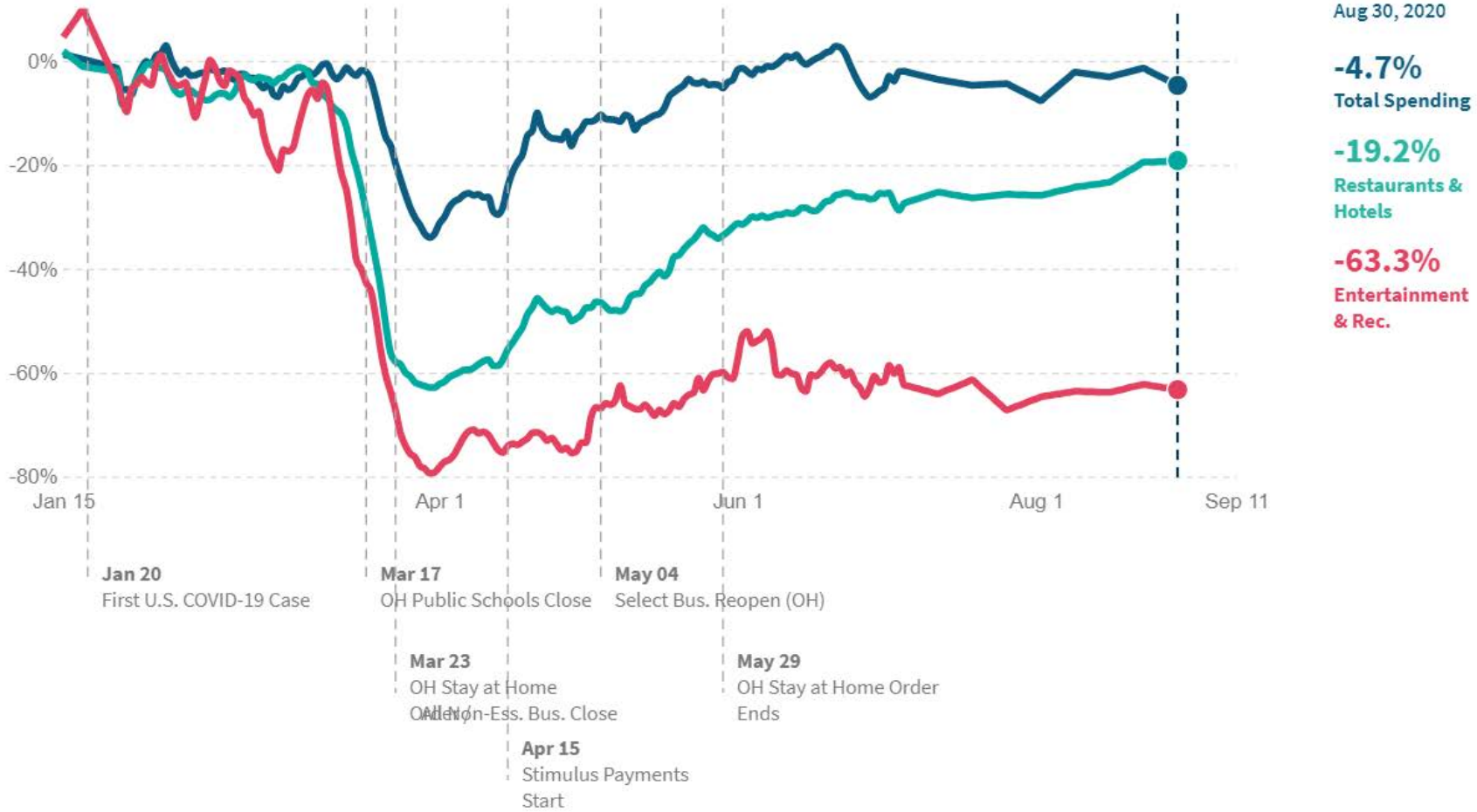
LOWER CONSUMER SPENDING

OPPORTUNITY INSIGHTS ECONOMIC TRACKER

HARVARD UNIVERSITY BROWN BILL & MELINDA GATES foundation

Percent Change in All Consumer Spending*

In **Ohio**, as of August 30 2020, total spending by all consumers decreased by **4.7%** compared to January 2020.



LOWER EMPLOYMENT

OPPORTUNITY INSIGHTS ECONOMIC TRACKER

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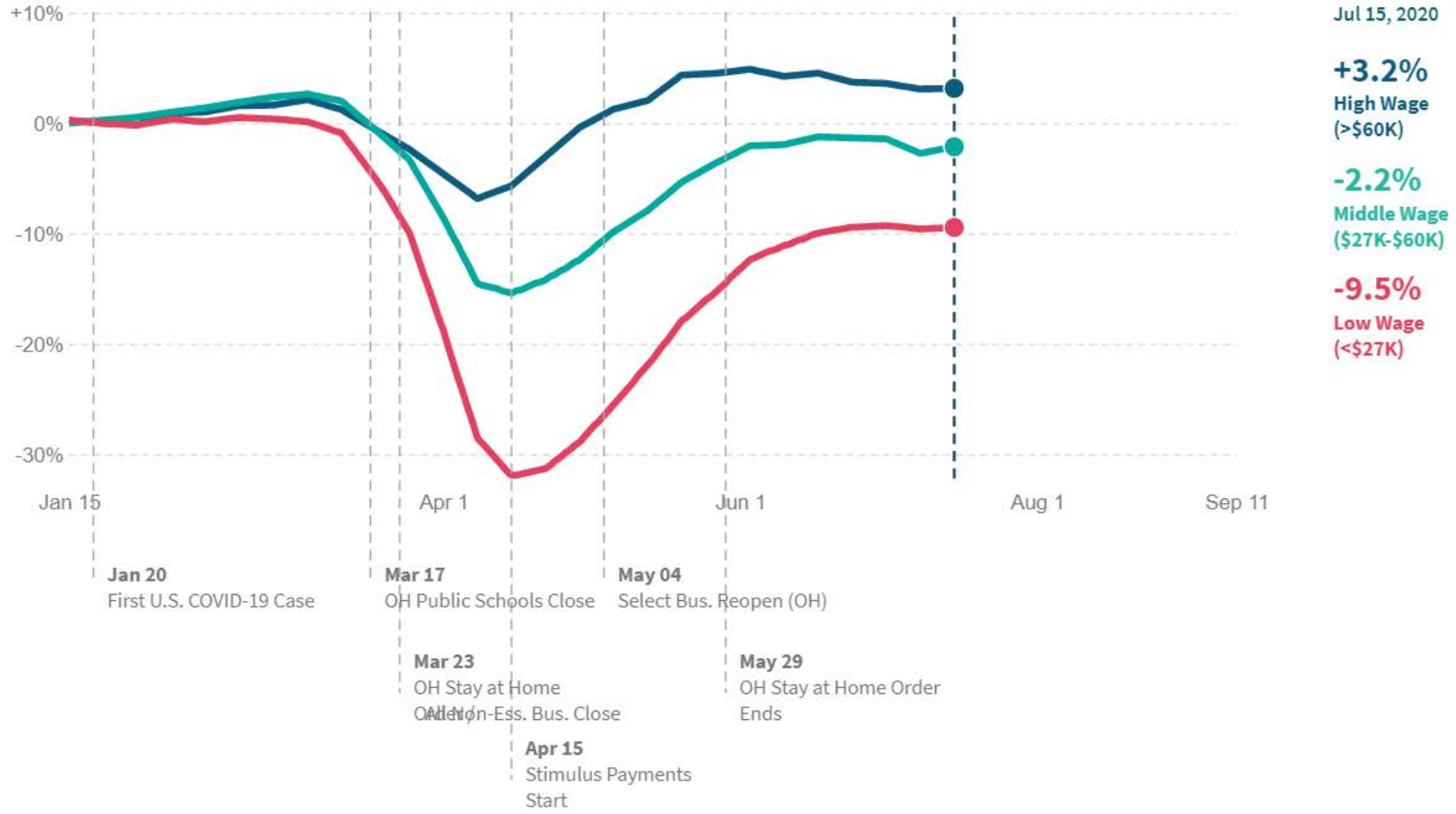
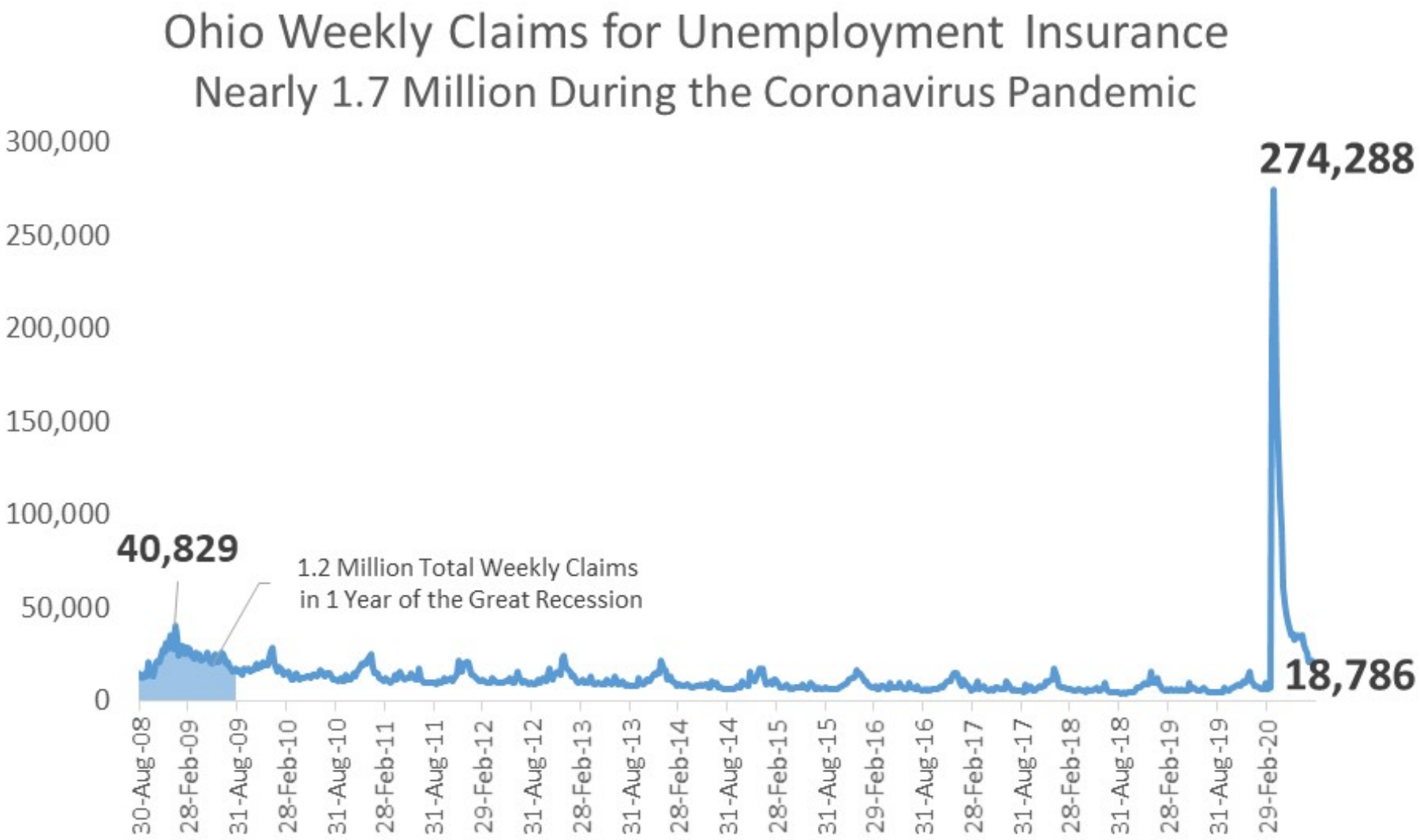
Percent Change in Employment*

In **Ohio**, as of July 15 2020, employment rates among workers in the top wage quartile increased by **3.2%** compared to January 2020.

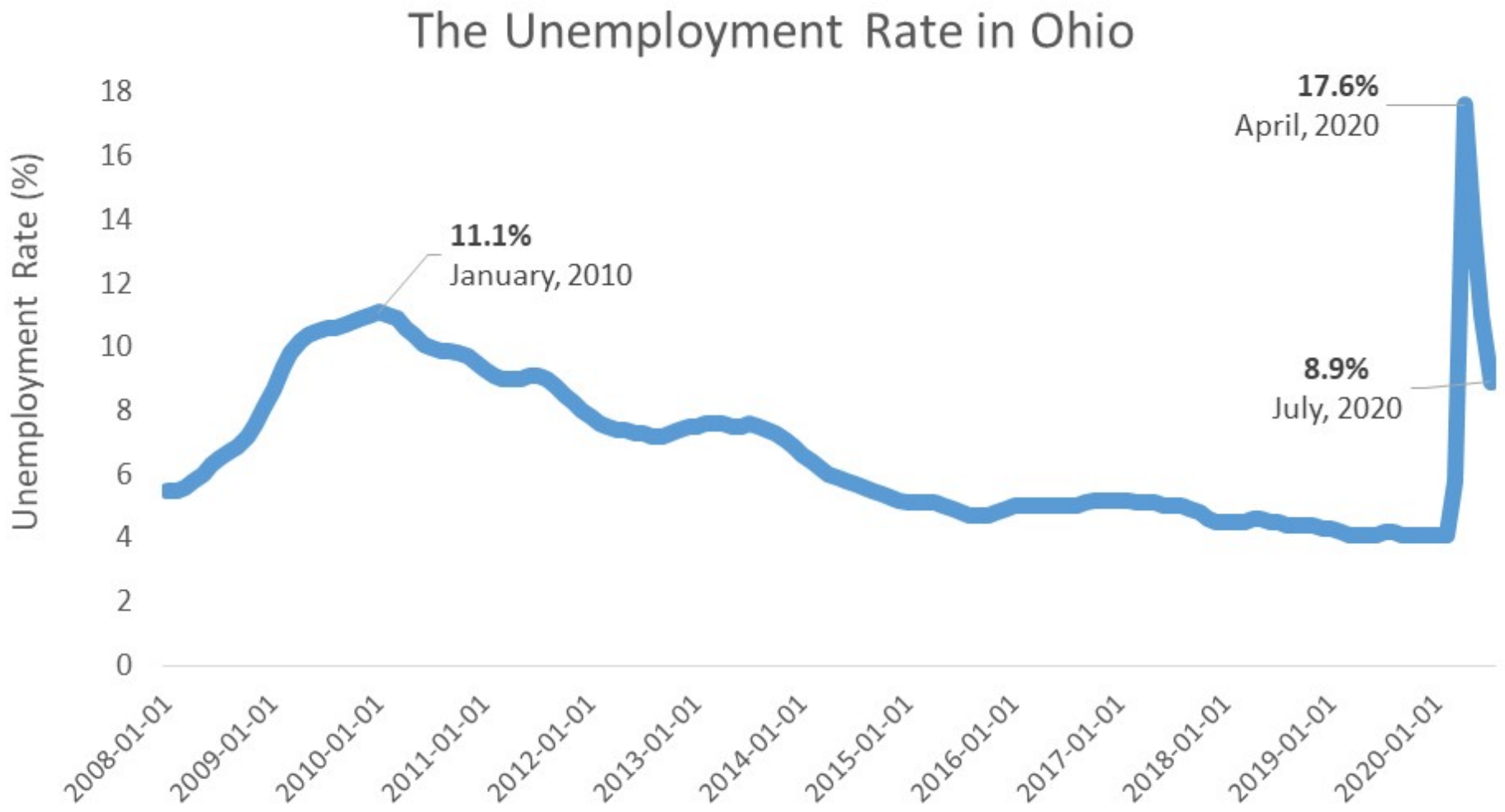


WEEKLY UNEMPLOYMENT CLAIMS



Source: US DOL, Ohio Department of Job and Family Services
Created by Dr. Amanda Weinstein

UNEMPLOYMENT



Source: BLS, FRED
Created by Amanda Weinstein

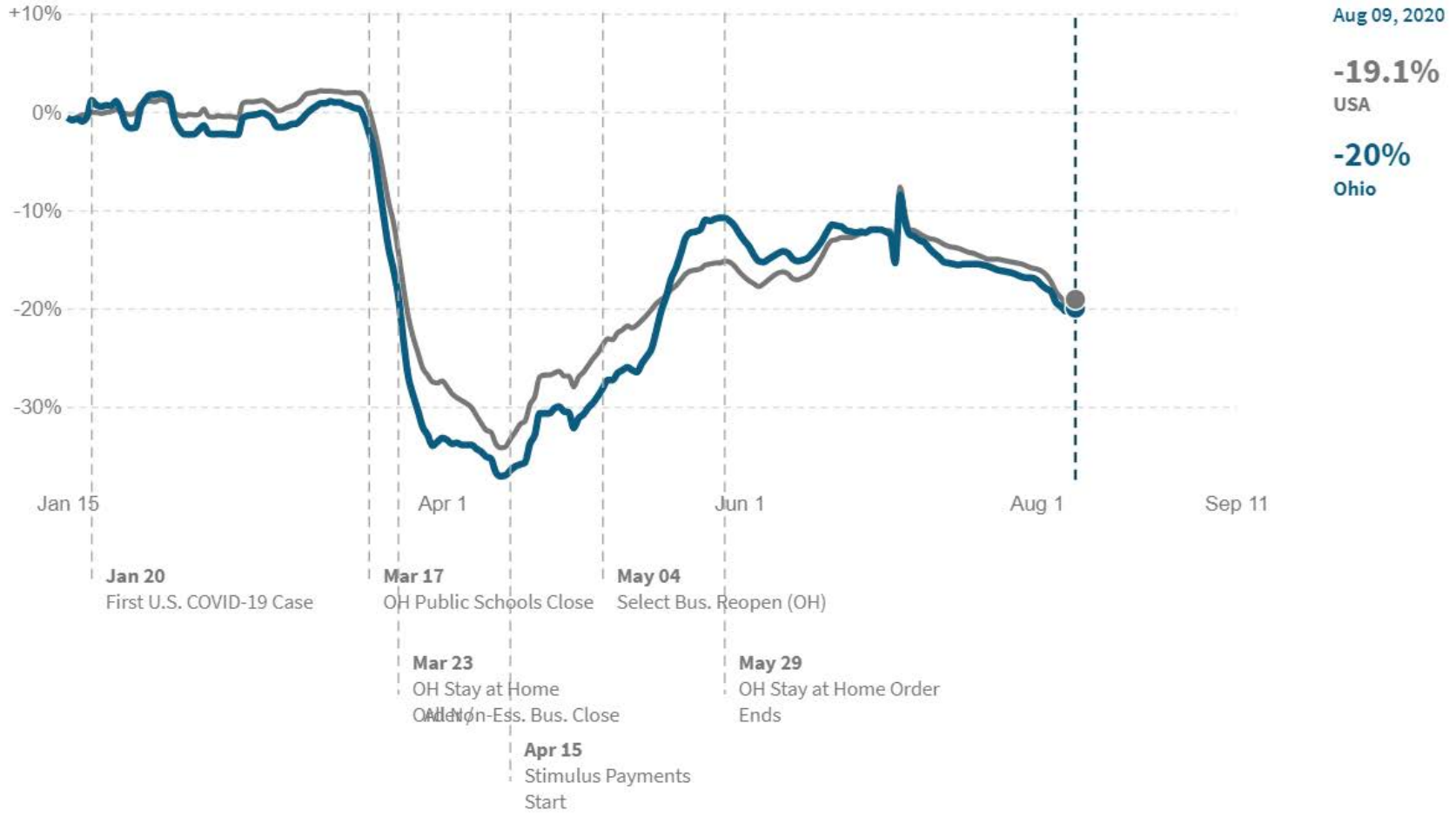
BIG IMPACT ON SMALL BUSINESS

OPPORTUNITY INSIGHTS ECONOMIC TRACKER

HARVARD UNIVERSITY BROWN BILL & MELINDA GATES foundation

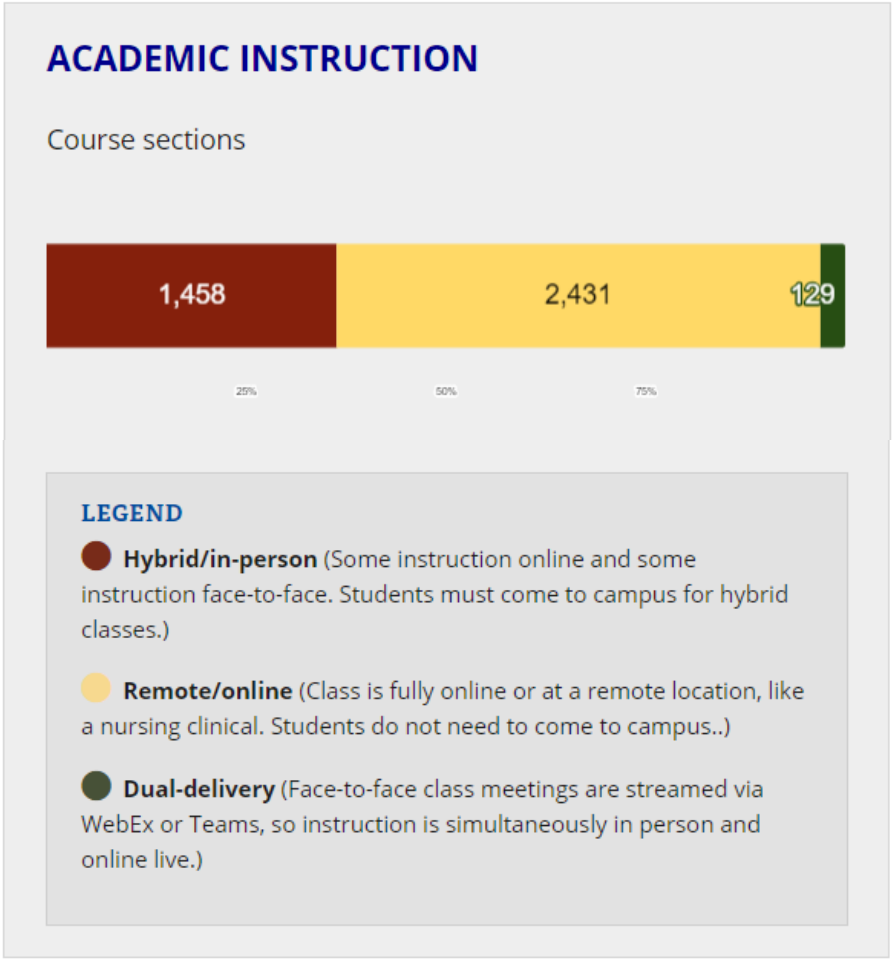
Percent Change in Number of Small Businesses Open*

In **Ohio**, as of August 09 2020, the number of small businesses open decreased by **20%** compared to January 2020.



BIG IMPACT ON EDUCATION

- Recessions usually boost enrollment – not this time (gap year)
- Lower enrollment, trend of declining state funding → lower revenue
- Higher costs (cleaning supplies, hand sanitizer, microphones, …)



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Questions

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@ProfWeinstein

September 14, 2020