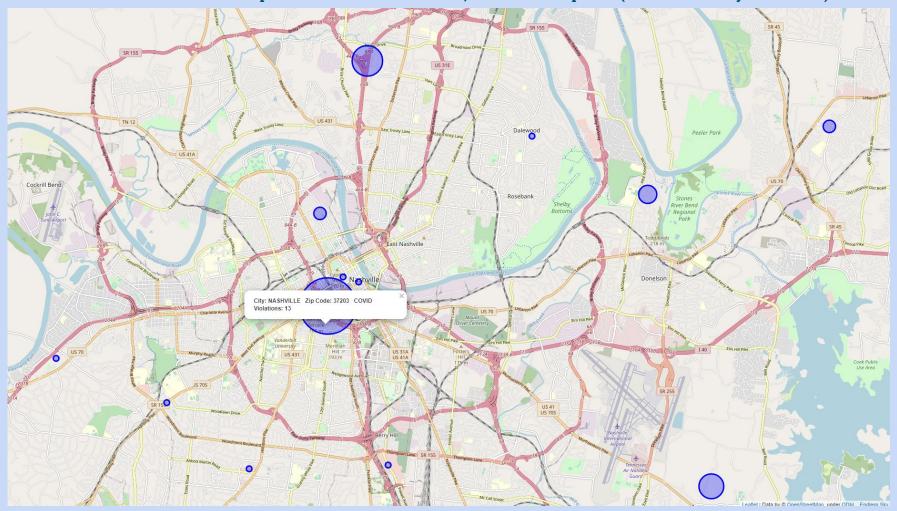
COVID-19 in Davidson County

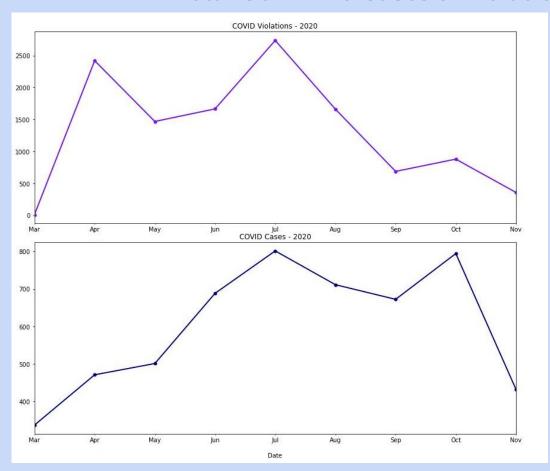
Violations, Masks, and Colleges

Reported COVID-19 Violations in Davidson County

The area with the most reported violations is the Gulch, or the 37203 zip code (Davidson County - Nashville)

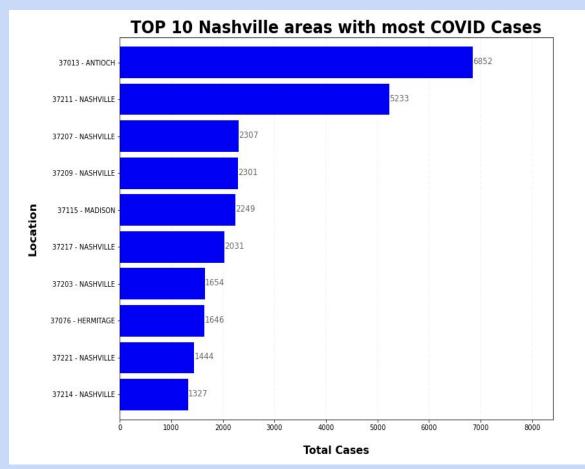


Total COVID-19 Cases & Violations in 2020



At the zip code level, COVID-19 cases and violations have a moderate positive correlation of .517. However, the reporting of violations dropped at a much steeper rate than the decline in cases from July to September, so going forward, this may not necessarily hold true.

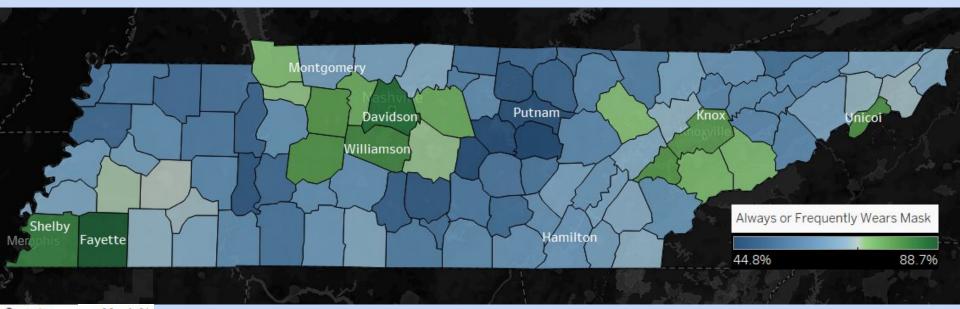
Top 10 Areas in Nashville with the Most COVID Cases



zip	count	Rank	city
37013	6852	1	ANTIOCH
37211	5233	2	NASHVILLE
37207	2307	4	NASHVILLE
37209	2301	5	NASHVILLE
37115	2249	6	MADISON
37217	2031	7	NASHVILLE
37203	1654	8	NASHVILLE
37076	1646	9	HERMITAGE
37221	1444	10	NASHVILLE

Davidson County Mask Usage

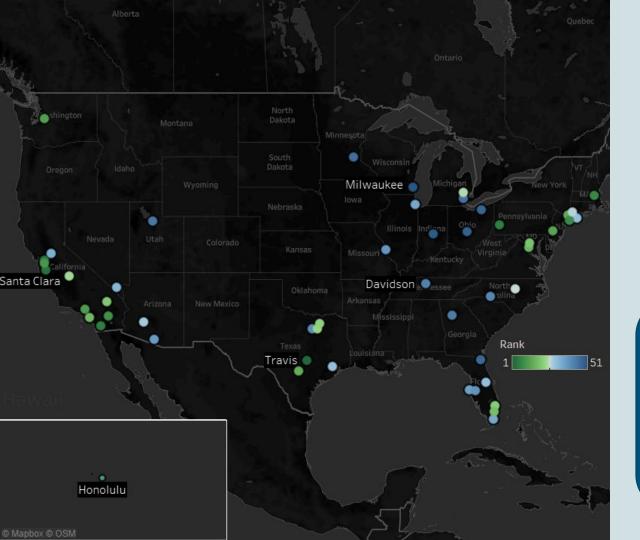
Mask Usage in Tennessee Counties



County Mask % 88.7% Fayette 85.8% Davidson Shelby 83.7% 81.6% Williamson 80.3% Unicoi 79.8% Hickman Loudon 79.2% 79.1% Dickson 78.8% Knox

Tennessee counties' average % of respondents who always or frequently wear masks:

63.67%



County	State	Mask %
Travis	Texas	95.3%
Honolulu	Hawaii	94.9%
Santa Clara	California	93.2%
Contra Costa	California	92.7%
Allegheny	Pennsylvania	92.6%
San Diego	California	92.6%
Middlesex	Massachusetts	92.5%
Nassau	New York	92.1%
Riverside	California	91.9%
Alameda	California	91.8%
Davidson	Tennessee	85.8%
Milwaukee	Wisconsin	76.1%

US counties' average % of respondents who always or frequently wear masks:

71.54%

Highest COVID-19 Case Days by Zip Code

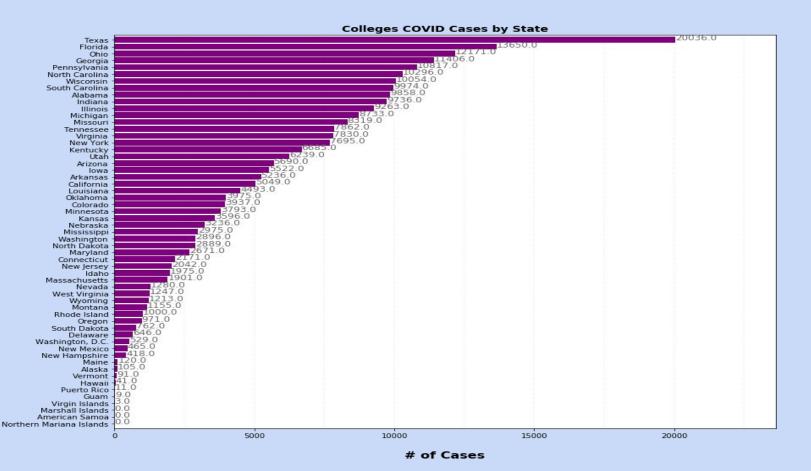
Top 10 Days by Cases within a Zip Code

.5	Date	Zip Code	Cases
0	6/24/2020	37211	159
1	8/4/2020	37211	131
2	11/9/2020	37013	127
3	9/4/2020	unspecified	125
4	7/6/2020	37013	119
5	9/3/2020	unspecified	100
6	11/9/2020	unspecified	98
7	11/10/2020	37013	98
8	7/8/2020	37013	94
9	7/13/2020	37013	93

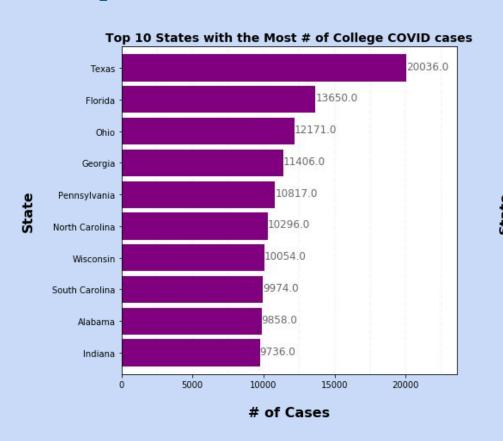
Interestingly, the only one of these days that had an associated cluster was August 4 in the 37211 zip code, which was linked to a CoreCivic cluster of 122 cases.

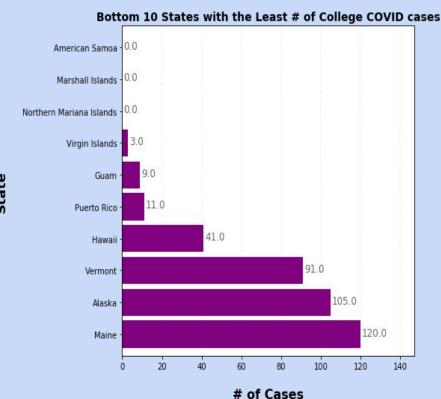
COVID-19 and College Campuses

Let's Explore COVID Cases in Colleges by State



Top and Bottom 10 States/U.S. Territories by College COVID Cases

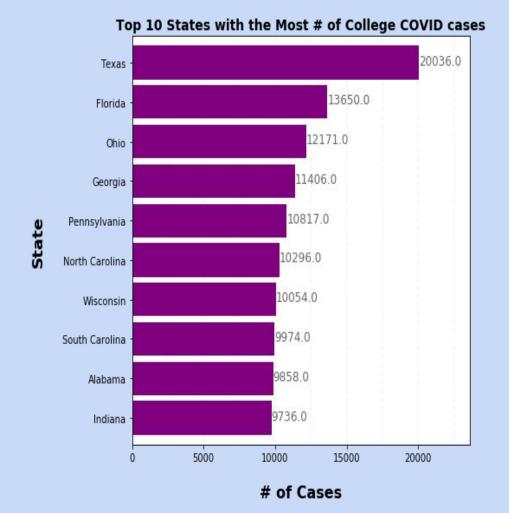




Is there a correlation between the number of colleges in a state and the number of **COVID** cases?

Top 10 States with the Greatest # of Colleges

New York	154
Pennsylvania	112
Florida	90
Texas	82
California	81
Ohio	67
Tennessee	65
Minnesota	58
Massachusetts	57
Kentucky	52

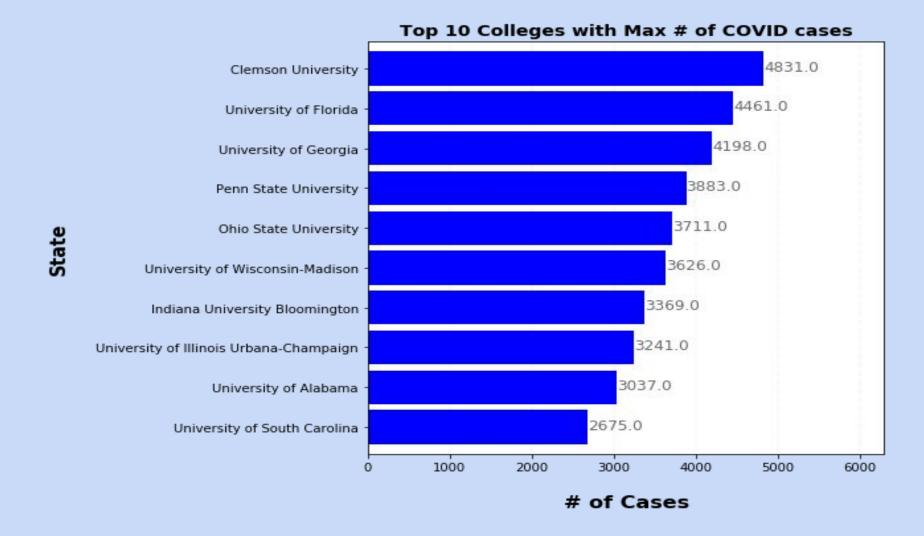


Can you guess which college had the highest number of COVID cases?

The Winner Is...

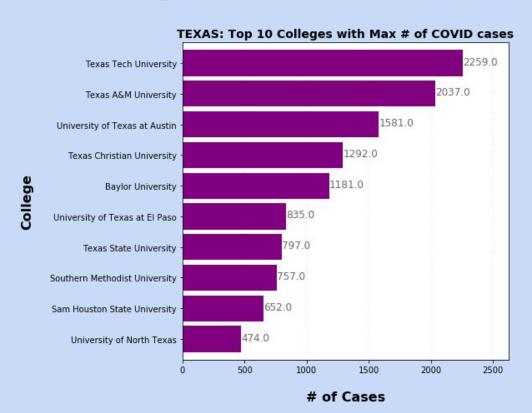
date 2020-11-05 South Carolina state Pickens county city Clemson ipeds id 217882 college Clemson University 4831 cases

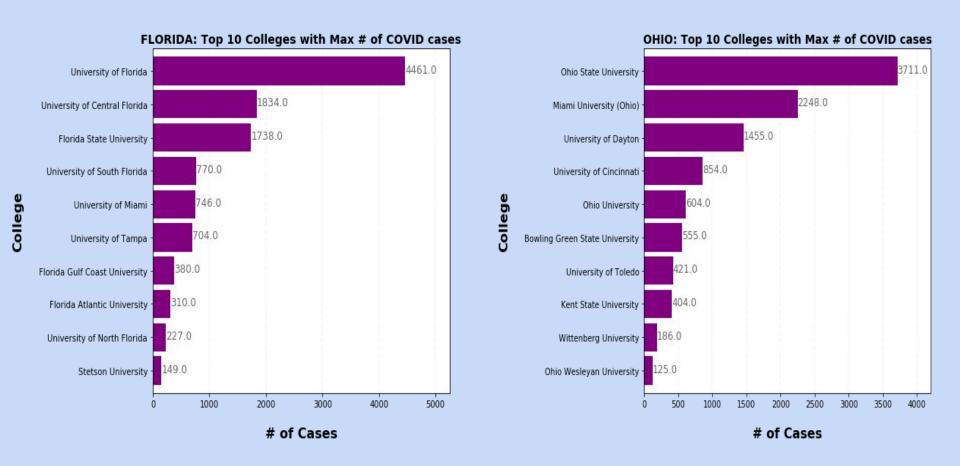
The college with the most COVID cases as of November 11, 2020

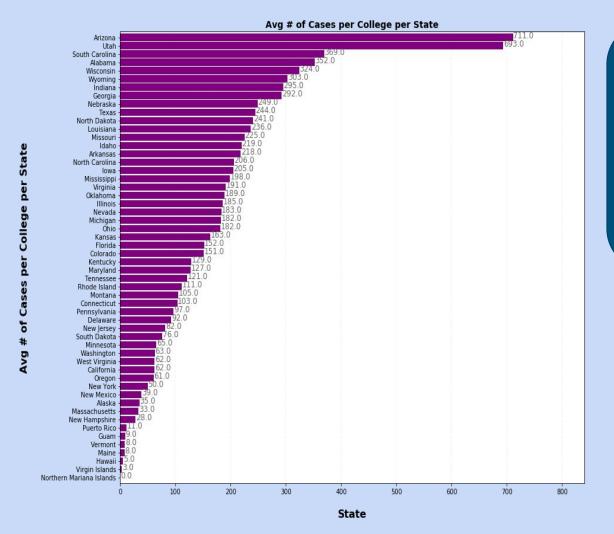


Now... let's look at the top 10 colleges with the most COVID cases in the top 3 states

state	cases
Texas	20036.0
Florida	13850.0
Ohio	12171.0







of Colleges:
Arizona - 8,
Utah - 9,
South Carolina - 27,
Alabama - 28,
Wisconsin - 31.
However, they have the highest avg. # of cases per college.

Conclusions

- COVID violations tended to be concentrated around downtown Nashville.
- After reaching a peak in July, COVID violation reports have sharply declined since, with little regard to cases. As such, they may not necessarily reflect improved compliance or lower risk
- Davidson County has good mask compliance relative to the rest of the state
 of Tennessee, as well as the country as a whole, but somewhat poor
 compliance compared to the top 50 most populous counties in the US

Conclusions (continued)

- Cluster sizes have noticeably shrunk over the past few months, perhaps indicating a greater emphasis on tracing uncovering smaller events
- New York and California are two of the largest states, and both were heavily affected by COVID during the first wave, but neither is in the top 10 of college campus cases. Policies around remote learning are likely playing a role.

Additional Sources

https://www.census.gov/data/datasets.html