**Staying at Home, Without a Home**

**Team:** Data Busters -- Loyola Marymount University

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**Background:**

According to the [Interagency Council on Homelessness](https://www.usich.gov/homelessness-statistics/ny/), 92,091 people experience homeless in New York City daily, and 60,923 of these individuals seek out support from homeless shelters throughout the city. But, New York City has come to be known as the epicenter of the Coronavirus pandemic in America. Because of this, [many homeless individuals are afraid to stay in homeless shelters](https://www.nytimes.com/aponline/2020/05/04/us/ap-virus-outbreak-homeless-in-new-york.html), which has caused this vulnerable population to not receive the support resources they need to survive this pandemic. Even though New York governor Andrew Cuomo [passed an eviction moratorium](https://www.governor.ny.gov/news/amid-ongoing-covid-19-pandemic-governor-cuomo-announces-moratorium-covid-related-evictions-will), there are [certain groups, such as undocumented immigrants, who are excluded from this protective policy,](https://ny.curbed.com/2020/3/26/21192343/coronavirus-new-york-eviction-moratorium-covid-19) thus causing people to lose housing and become homeless as a result of the Coronavirus pandemic.

**Research Goal**

Our goal was to examine data released by [The Department of Homeless Services](https://data.cityofnewyork.us/Social-Services/DHS-Daily-Report/k46n-sa2m) to determine how the trends in individuals seeking support from different homeless shelters in New York City have changed as a result of the Coronavirus pandemic.

**Data**

The main dataset we used was [The Department of Homeless Services](https://data.cityofnewyork.us/Social-Services/DHS-Daily-Report/k46n-sa2m) counts of individuals in shelters per day from 2013-2020. We augmented this data with the [Department of Homeless Service Home Stat Canvassing data](https://data.ny.gov/City-Government/HOME-STAT-Weekly-Dashboard/2abb-gr8d) which shows the number of unsheltered homeless individuals throughout the city each week. Data about the prevalence of COVID-19 in NYC was retrieved from the [NYC Department of Health and Mental Hygiene](https://github.com/nychealth/coronavirus-data). We retrieved information on rent burden in New York City from the [Urban Systems Lab](http://urbansystemslab.com/covid19), and we used the [NYC Homeless Shelter Directory](https://www.homelessshelterdirectory.org/cgi-bin/id/city.cgi?city=new%20york%20city&state=NY) for a list of all homeless shelters in NYC.

**Data Preparation**

The pandas and NumPy libraries in python were used to clean and sort the data. The matplotlib library was used to model different graphs, which were then reconstructed in Tableau. Tableau was also used to create the maps.

**Raw Links to Information Used for this Project:**

Data:

<https://data.cityofnewyork.us/Social-Services/DHS-Daily-Report/k46n-sa2m>

<https://data.ny.gov/City-Government/HOME-STAT-Weekly-Dashboard/2abb-gr8d>

<https://github.com/nychealth/coronavirus-data>

<http://urbansystemslab.com/covid19>

<https://www.homelessshelterdirectory.org/cgi-bin/id/city.cgi?city=new%20york%20city&state=NY>

<http://www.nyep.uscourts.gov/reentry/NYC%20Homeless%20Shelters.pdf>

Information on NYC Policies and Shelters:

<https://www.nytimes.com/aponline/2020/05/04/us/ap-virus-outbreak-homeless-in-new-york.html>

<https://www.usich.gov/homelessness-statistics/ny/>

<https://www.governor.ny.gov/news/amid-ongoing-covid-19-pandemic-governor-cuomo-announces-moratorium-covid-related-evictions-will>

<https://ny.curbed.com/2020/3/26/21192343/coronavirus-new-york-eviction-moratorium-covid-19>

<https://www1.nyc.gov/assets/doh/downloads/pdf/imm/guidance-for-homeless-shelters-covid19.pdf>

<https://abcnews.go.com/US/million-yorkers-evicted-covid-city-assistance-report/story?id=70657852>

Images used in Presentation:

<https://www.thomasnet.com/articles/top-suppliers/nitrile-gloves-manufacturers-and-suppliers/>

<https://nypost.com/2018/12/27/what-nyc-must-learn-from-seattles-homeless-struggle/>

<https://www.fda.gov/medical-devices/personal-protective-equipment-infection-control/face-masks-and-surgical-masks-covid-19-manufacturing-purchasing-importing-and-donating-masks-during>