**Team Name**: MMA

**Team Members**: Mark, Aditya, Michelle

**Project title**:

**Project description**:

Explore data related to the food deserts in Chicago.

**RQ**s:

* Where do food deserts exist in Chicago?
  + <https://www.kaggle.com/carrie1/food-environment-atlas>
  + <https://www.ers.usda.gov/data-products/food-environment-atlas/data-access-and-documentation-downloads/>
  + General Overview – Chicago map
    - Chicago census tracts and neighborhoods
  + Dataset Titles
    - Boundaries - Census Tracts - 2010.geojson
    - geo\_export\_ed8adefc-d13e-4894-93ef-3e3309ee864d.dbf
    - Neighborhoods\_2012b.dbf
  + Farmer’s market location impact on food accessibility
  + Produce Carts
    - <https://data.cityofchicago.org/Community-Economic-Development/Produce-Carts/divg-mhqk>
    - Updated July 2018
* What factors are correlated with food deserts?
  + Is there a higher concentration of fast food locations in food deserts?
    - <https://www.kaggle.com/datafiniti/fast-food-restaurants>
    - Dataset Title
      * fast\_food\_chicago.csv
        + Relevant variables

“name”

“categories”

“latitude”

“longitude”

* + Are there any areas that qualify as food deserts in non-low-income areas?
    - <https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2>
    - <https://data.cityofchicago.org/Health-Human-Services/Per-Capita-Income/r6ad-wvtk>
    - Dataset Title
      * Chi\_PerCapitaIncome\_2008\_2012.csv
        + Relevant variables

“COMMUNITY AREA NAME”

“PER CAPITA INCOME”

“PERCENT OF HOUSING CROWDED”

“PERCENT HOUSEHOLDS BELOW POVERTY”

* + - * Bin Ranges and then count census tract per bin
* Is there a higher rate of food related crimes in food deserts?
  + - <https://data.cityofchicago.org/Public-Safety/Crimes-2018/3i3m-jwuy>
    - Dataset Title
      * Chi\_Crimes2018\_Food.csv
        + Relevant variables

“Primary Type” – Theft, burglary

“Location Description” – Grocery store, restaurant, bar or tavern, or convenience store

“Latitude”

“Longitude”

“Location” – lat, lon combined

“Census Tracts”

* Is there a correlation between food deserts and public health factors related to prenatal care and infant health?
  + - <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Selected-public-health-in/iqnk-2tcu>
    - <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Life-Expectancy-By-Commun/qjr3-bm53>
    - Dataset Title
      * Chi\_PH\_indicators\_by\_cmty\_2005\_2011\_filtered.csv
        + (Last updated 2015)
        + Relevant variables

Related to prenatal and birth

“Birth Rate”

“Low Birth Weight”

“Prenatal Care Beginning in First Trimester”

“Preterm Births”

“Infant Mortality Rate”

Related to income and drugs

“Per Capita Income”

“Below Poverty Level”

“Crowded Housing”

“Dependency”

**Breakdown of Tasks**:

* Each team member will be responsible to answer a question
  + Access and clean dataset
  + Analysis and Visualization
  + Presentation – relevant slides for section

**Datasets**:

Chicago Data Portal

* <https://data.cityofchicago.org/>
* <https://data.cityofchicago.org/Environment-Sustainable-Development/Farmers-Markets-Map/atzs-u7pv>
* <https://data.cityofchicago.org/Health-Human-Services/Census-Data-Selected-socioeconomic-indicators-in-C/kn9c-c2s2>
* <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Selected-public-health-in/iqnk-2tcu>
* <https://data.cityofchicago.org/Health-Human-Services/Public-Health-Statistics-Life-Expectancy-By-Commun/qjr3-bm53>

Data.gov – Chicago Datasets (756)

* <https://catalog.data.gov/dataset?organization=city-of-chicago>
* <https://catalog.data.gov/dataset/urban-farms-7e834>

Kaggle

* Food environment atlas 2018
* Chicago grocery stores 2013 (dated look for more recent data)
  + <https://www.kaggle.com/chicago/chicago-grocery-stores-2013>
* Chicago Public Health Statistics
  + <https://www.kaggle.com/chicago/chicago-public-health-statistics>
* Chicago Shape Files
  + <https://www.kaggle.com/threadid/chicago-shape-files>
* Chicago affordable rental housing
  + <https://www.kaggle.com/chicago/chicago-affordable-rental-housing-developments>
* Fast food restaurants across America
* SNAP Benefits Recipients Data Collection
  + <https://www.kaggle.com/census/snap-benefits-recipients-data-collection>

**Breakdown of Tasks**:

* Each team member will be responsible to answer a question
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**Misc.:**

Definition – USDA Defines food deserts:

“Food deserts are defined as parts of the country vapid of fresh fruit, vegetables, and other healthful whole foods, usually found in impoverished areas. This is largely due to a lack of grocery stores, farmers’ markets, and healthy food providers.”

This has become a big problem because while food deserts are often short on whole food providers, especially fresh fruits and vegetables, instead, they are heavy on local quickie marts that provide a wealth of processed, sugar, and fat laden foods that are known contributors to our nation’s obesity epidemic. The food desert problem has in fact become such an issue that the USDA has outlined a map of our nation’s food deserts, which I saw on Mother Nature Network.” (<http://americannutritionassociation.org/newsletter/usda-defines-food-deserts>)

Articles:

<https://www.ers.usda.gov/data-products/food-access-research-atlas/>

<https://www.npr.org/sections/thesalt/2013/03/13/174112591/how-to-find-a-food-desert-near-you>

<http://villagenewsonline.com/2019/04/23/county-officials-address-food-deserts/>

<https://www.quora.com/What-are-the-primary-causes-of-food-deserts-in-urban-American-cities>

Chicago Related articles:

<https://www.chicagoreporter.com/food-deserts-persist-in-chicago-despite-more-supermarkets/>

<https://news.uchicago.edu/story/food-deserts-dont-benefit-more-supermarkets-chicago-study-finds>

<https://southsideweekly.com/opinion-solution-food-deserts-isnt-just-food/>

<http://www.redlineproject.org/chicago-food-deserts.php>

<https://www.citylab.com/equity/2018/01/its-not-the-food-deserts-its-the-inequality/550793/>

<https://news.wttw.com/2017/09/18/new-law-requires-illinois-track-food-deserts>

<http://www.chicagotalks.org/?p=2708>

<http://chicagopolicyreview.org/2019/04/17/chicago-food-more-supermarkets-do-not-mean-healthy-food-for-all/>

Notes Potential Qs

* 1
  + What factors are correlated with food deserts?
  + What kind of relationship exists between the price of food and the health of the population?
  + Which communities are high risk for children in terms of access to healthy food?
* 6
  + You can use this data to [rank cities with the most and least fast food restaurants across the U.S.](https://datafiniti.co/fast-food-restaurants-america/). E.g.:
  + Cities with the most and least McDonald's per capita
  + Fast food restaurants per capita for all states
  + Fast food restaurants with the most locations nationally
  + Major cities with the most and least fast food restaurants per capita
  + Small cities with the most fast food restaurants per capita
  + States with the most and least fast food restaurants per capita
  + The number of fast food restaurants per capita